


*THE JOHNS HOPKINS UNIVERSITY*  
*BALTIMORE, MARYLAND*

*Conferring of Degrees*  
*at the close of the eighty-fifth academic year*



*JUNE 13, 1961*  
*Keyser Quadrangle*



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# ORDER OF PROCESSION

## *The Graduates*

### *Marshals*

CHARLES R. ANDERSON  
JAMES H. CARPENTER  
STANLEY CORRISIN  
JAMES E. DEESE  
ACHESON J. DUNCAN  
PALMER H. FUTCHER

JOHN W. GRYDER  
WILLIS C. GORE  
WILLIAM C. JOHNSTONE, JR.  
JAMES L. KUETHE  
ALVIN NASON  
CARL P. SWANSON

CHARLES M. WYLIE

\*

## *The Faculties*

### *Marshals*

JAMES W. POULTNEY and CHARLES E. RENN

\*

## *The Deans, The Trustees and Honored Guests*

### *Marshals*

RICHARD H. GREEN and M. GORDON WOLMAN

\*

## *The Commencement Speaker*

### *The Chaplain*

### *The Chairman of the Board of Trustees*

### *The Presenter of the Honorary Degree Candidate*

### *The President of the University*

### *Chief Marshal*

DONALD H. ANDREWS

### *Assistant Marshal*

FERDINAND HAMBURGER, JR.

\*

## *For the Presentation of Diplomas*

### *Marshals*

MAURICE J. BESSMAN  
WILLIAM H. HUGGINS

STEWART H. HULSE, JR.  
W. KELSO MORRILL

\*

*The ushers are undergraduate students of  
The Johns Hopkins University*

# ORDER OF EVENTS

*Milton Stover Eisenhower, President of the University, presiding*

\*

## PROCESSIONAL

VOLUNTARY IN C FROM CEREMONIAL MUSIC — H. PURCELL

*John H. Elterman, Organist*

*The audience is requested to stand as the Academic Procession moves into the area and to remain standing until after the Invocation and the singing of the National Anthem.*

\*

## INVOCATION

*The Reverend Doctor Vernon B. Richardson*

\*

THE STAR SPANGLED BANNER

THE UNIVERSITY ODE

\*

## GREETINGS TO PARENTS

*The President of the University*

\*

Presentation of the Christian R. and Mary F. Lindback

## AWARDS FOR DISTINGUISHED TEACHING

*The President of the University*

\*

## CONFERRING OF HONORARY DEGREE

*Presented by Professor Malcolm C. Moos*

\*

## ADDRESS

EDWARD R. MURROW

*Director, United States Information Agency*

# ORDER OF EVENTS

*Continued*

## CONFERRING OF DEGREES ON CANDIDATES

*Presented by Dean G. Heberton Evans, Jr.:*

BACHELORS OF ARTS

*Presented by Dean Robert H. Roy:*

BACHELORS OF ENGINEERING SCIENCE

MASTERS OF SCIENCE IN ENGINEERING • DOCTORS OF ENGINEERING

*Presented by Dean Richard A. Mumma:*

BACHELORS OF SCIENCE • BACHELORS OF SCIENCE IN NURSING

BACHELORS OF SCIENCE IN ENGINEERING

MASTER OF SCIENCE IN ENGINEERING

MASTERS OF EDUCATION

CERTIFICATES OF ADVANCED STUDY IN EDUCATION

*Presented by Dean Ernest L. Stebbins:*

MASTERS OF SCIENCE IN HYGIENE • DOCTORS OF SCIENCE IN HYGIENE

MASTERS OF PUBLIC HEALTH • DOCTORS OF PUBLIC HEALTH

*Presented by Dean Thomas B. Turner:*

DOCTORS OF MEDICINE

*Presented by Dean Francis O. Wilcox:*

MASTERS OF ARTS, DOCTORS OF PHILOSOPHY

SCHOOL OF ADVANCED INTERNATIONAL STUDIES

*Presented by Dean G. Heberton Evans, Jr.:*

MASTERS OF ARTS IN TEACHING

MASTERS OF ARTS • DOCTORS OF PHILOSOPHY

\*

## CHARGE TO GRADUATES

*The President of the University*

\*

## BENEDICTION

\*

## RECESSIONAL

MARCHE TRIOMPHALE — T. DUBOIS

*The audience is requested to remain standing after the Benediction  
until the faculties and graduates have left the area.*



# CANDIDATES FOR DEGREES

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## BACHELORS OF ARTS

JEFFREY DAVID AARONSON, of Baltimore, Md.  
DAVID BLAKEMORE ADAMS, of Montclair, N. J.  
ZALMAN STEPHEN AGUS, of Baltimore, Md.  
ANTHONY JOSEPH ALFANO, of Garfield, N. J.  
ARNOLD JEROME ALTMAN, of Baltimore, Md.  
PAUL JOSEPH ARENA, of Newark, N. J.  
RICHARD LEWIS BASS, of Hewlett, N. Y.  
JOHN HEWLETT KEYES BELT, of Southampton, N. Y.  
PAUL SANDERS BERMAN, of Baltimore, Md.  
GEORGE MAUDUIT BERRY, Jr., of Lutherville, Md.  
JAMES WILLIAM BEVANS, Jr., of Baltimore, Md.  
THOMAS NICHOLAS BIDDISON, Jr., of Baltimore, Md.  
WARREN BISHOP, of Baltimore, Md.  
ROLAND CLEMENT BLANTZ, of Portland, Ore.  
GORDON JUDD BOCKNER, of Scarsdale, N. Y.  
BRUCE IAN BOGART, of Poughkeepsie, N. Y.  
THOMAS S. BOWYER, Jr., of Baltimore, Md.  
DOUGLAS BRENNER, of Chevy Chase, Md.  
J. GRANT BREWEN, of Easton, Pa.  
DAVID STUART BROWN, of Baltimore, Md.  
GEORGE HOWARD BUERMANN, of North Caldwell, N. J.  
JACQUES RONALD CALDWELL, of White Plains, N. Y.  
GERALD MARVIN CAMP, of Spokane, Wash.  
BRUCE SWAIN CAMPBELL, of Hastings-on Hudson, N. Y.  
NATHAN HIRAM CARLINER, of Baltimore, Md.  
ALAN STANLEY CARMEL, of Baltimore, Md.  
JAMES WALTER CARTER, of Lubbock, Tex.  
DONALD ANTHONY CARUSO, of East Meadow, N. Y.  
ARTHUR SAMUEL CHESLOCK, of Baltimore, Md.  
HOWARD G. CHILTON, Jr., of Dallas, Tex.  
DANIEL LINDSAY CLARK, of St. Johnsbury, Vt.  
RONALD GREY CLARK, of Gaithersburg, Md.  
EUGENE HAROLD-PHILIP COLYER, Jr., of Lewistown, Pa.  
BRIAN KEITH CONRAD, of Alexandria, Va.  
LEONARD BRYAN COTTON, Jr., of ElkrIDGE, Md.  
RICHARD HEARNE CREECH, of Philadelphia, Pa.  
CHARLES YOUNG DAVIS, of Arlington, Va.  
ROBERT STANLEY DICKENS, of Alexandria, Va.  
GEORGE EDWARD DICKEY, of Coraopolis, Pa.  
MICHAEL DAVID DICKMAN, of Philadelphia, Pa.  
PAUL DAVID DLUGIE, of Chicago, Ill.  
DENNIS LIDDELL DONAHUE, of Eastchester, N. Y.  
FRANCIS THOMAS DOUGHERTY, of Baltimore, Md.  
DAVID WILLIAM DOUPÉ, of Bellevue, Wash.  
EUGENE MICHAEL EDYNAK, of Chester, Pa.  
STEWART RONALD ELLISON, of Baltimore, Md.  
JAMES MELTON ERRICO, of Suffern, N. Y.  
DONALD NORMAN EVENSON, of Verona, N. J.

MARTIN S. FEIGENBAUM, of New York, N. Y.  
RICHARD LEWIS FELDMAN, of Brooklyn, N. Y.  
GERALD F. FENSTER, of Passaic, N. J.  
RONALD JOSEPH FISHER, of North Cape May, N. J.  
FREDERICK WILLIAM FLICKINGER, of York Springs, Pa.  
SAMUEL MICHAEL FLOAM, of Baltimore, Md.  
LESLIE J. FODEMAN, of Fairfield, Conn.  
ALAN EDWARD FREELAND, of Youngstown, Ohio  
ALLEN ARTHUR FREY, of Bayside, N. Y.  
CLARENCE NOBUTO FUNAKI, of Honolulu, Hawaii  
ROBERT WINSTON GAMMON, of Arlington, Va.  
HOWARD BENJAMIN GARFINKEL, of Charleston, S. C.  
CLAUDE CONSTANT GAU, of Annapolis, Md.  
GERALD IVAN GELWICKS, of Chambersburg, Pa.  
ARMAND FRANCIS GIRARD, of Baltimore, Md.  
JOHN DONALD GLASER, of Baltimore, Md.  
RONALD JOEL GLASSER, of Chicago, Ill.  
DALE TRUSCOTT GOBEL, of Bound Brook, N. J.  
HERBERT SHELDON GOLINKIN, of Chicago, Ill.  
JOHN GEOFFREY GOLLIN, of Scarsdale, N. Y.  
JOEL SIMON GORDON, of New York, N. Y.  
MICHAEL SANFORD GREENBAUM, of Baltimore, Md.  
ERNEST CHARLES GREENE, Jr., of Baltimore, Md.  
DAVID GEORGE GREENFELD, of Baltimore, Md.  
PAUL JOSEPH GRIM, of Washington, D. C.  
JOSHUA BERNARD GROSSMAN, of Baltimore, Md.  
LESTER JEROME GURWITT, of Flushing, N. Y.  
DAVID ALAN HARRIS, of Flushing, N. Y.  
EMERSON SPAULDING HAWLEY, of New Providence, N. J.  
CHARLES EDWARD HEIDENREICH, Jr., of Rockville, Md.  
EDWARD YOSHIMASA HENJOYJI, of Portland, Ore.  
MELVYN S. C. HO, of Honolulu, Hawaii  
ROBERT CLARK HOOPER, of Newport, R. I.  
DAVID WILLIAM HUNTER, of Latrobe, Pa.  
RICHARD LEWIS HURWITZ, of Brooklyn, N. Y.  
DAVID L. JACKSON, of Dunellen, N. J.  
MARVIN CHARLES JONES, of Detroit, Mich.  
HANS JORDAN, of Lutherville, Md.  
WILLIAM SANDERSON KABLE, of Baltimore, Md.  
ANDREW LERNER KAHN, of Baltimore, Md.  
RICHARD LARRY KALNIT, of Brooklyn, N. Y.  
MICHAEL ELLIS KAMINKOW, of Baltimore, Md.  
PAUL ALFRED KANDLER, of Baltimore, Md.  
MICHAEL STEVEN KAPPY, of Levittown, N. Y.  
PAUL JASON KAROL, of Eastchester, N. Y.  
EMIL J. KARP, of San Antonio, Tex.  
JOHN KATZ, of Ridgefield, Conn.  
ANTHONY LAURANCE KEATING, of Buenos Aires, Argentina



ROBERT RUSSELL KENT, of Washington, D. C.  
 RICHARD OLDHAM KING, of Ellicott City, Md.  
 EDMUND BARRY KLINE, of Trenton, N. J.  
 STANLEY HENRY KLOSK, of Baltimore, Md.  
 JEFFREY MARK KNISBACHER, of Baltimore, Md.  
 DONALD CARL KUPPERSTEIN, of Hull, Mass.  
 J. PETER KUSEL, of Bayonne, N. J.  
 RICHARD STUART LABOVITZ, of Baltimore, Md.  
 WILLIAM HENRY LAMBRIGHT, of Baltimore, Md.  
 DAVID REED LAWRENCE, of Pitman, N. J.  
 FREDERICK ROBERT LEHMEYER, of Baltimore, Md.  
 CHARLES LEROY LEISURE, of Baltimore, Md.  
 JOEL BARRY LENCH, of Beaver Falls, Pa.  
 HAROLD LEON LEVIN, of Baltimore, Md.  
 SANFORD LESLIE LEVIN, of Baltimore, Md.  
 SIMON ASHER LEVIN, of Baltimore, Md.  
 NORMAN STUART LEVY, of Detroit, Mich.  
 CHARLES PETER LICKSON, Stamford, Conn.  
 DONALD ROWLAND LUSTER, of Roselle Park, N. J.  
 ROBERT PURKS MACCUBBIN, of Baltimore, Md.  
 DOUGLAS WILLIAM MACRAE, of Bay City, Mich.  
 PATRICK HUMPHREYS MAHONEY, of Annapolis, Md.  
 ROBERT JOSEPH MALMAD, of Brooklyn, N. Y.  
 MICHAEL GEORGE MARENCHIC, of Perth Amboy, N. J.  
 PACY ALLAN MARKMAN, of Baltimore, Md.  
 NORMAN BRUCE MCCUTCHEON, of Swarthmore, Pa.  
 ALICE HUANG MCGOWAN, of Pittsburgh, Pa.  
 WILLIAM GERALD MELSON, of Riverdale, Md.  
 STANLEY A. MENDOZA, of McKeesport, Pa.  
 PAUL ANTHONY MEYER, of San Antonio, Tex.  
 JOHN JOSEPH MIGLIORE, of Baltimore, Md.  
 MICHAEL JEROLD MINTZ, of Arlington, Va.  
 GERALD CORNELIUS MONSMAN, of Baltimore, Md.  
 CORNELIA WRIGHT MORRISON, of Park Ridge, Ill.  
 WILLIAM JOHN NAPE, of New Orleans, La.  
 NEIL EDWARD NEWTON, of Baltimore, Md.  
 PAUL LOWANCE NIEBANCK, of Baltimore, Md.  
 ALAN GARY NOGEN, of Cincinnati, Ohio  
 JOHN DIEHL O'NEILL, Jr., of Baltimore, Md.  
 HAROLD NICK PAPPAS, of Flushing, N. Y.  
 MICHAEL PARGAMENT, of New York, N. Y.  
 ALFRED COPLAND PARISER, of New York, N. Y.  
 HUGH RALPH PEASE, of Chardon, Ohio  
 MARK HOWARD PEREL, of Baltimore, Md.  
 MARSHALL ALAN PERMUTT, of Birmingham, Ala.  
 DONALD MACKLIN PERRY, Jr., of Baltimore, Md.  
 VALENTINE MARLOW PERRY, Jr., of Garden City, N. Y.  
 JEFFREY EDWARD POILEY, of Baltimore, Md.  
 GEORGE BUTTS POWELL, of Norfolk, Va.  
 JAMES WESLEY REED, of Randallstown, Md.  
 WILLIAM MICHAEL REISMAN, of Philadelphia, Pa.  
 KURT WETHERHOLD RIEGEL, of Lexington, Va.  
 THOMAS NELSON RIGHTMYER, of Glyndon, Md.  
 ROBERT HIRSH RIVKIN, of Baltimore, Md.  
 FRANCIS JAMES RIZZOLO, of Dover Plains, N. Y.  
 MARTIN C. ROBSON, of Lancaster, Ohio  
 HOWARD CARL RODMAN, of Baltimore, Md.

STEVEN A. ROSENBERG, of New York, N. Y.  
 HENRY ALLAN SAIONTZ, of Baltimore, Md.  
 PETER CHRISTIAN SCHEIDT, of Highland, Md.  
 DAVID ALLAN SCHNEPFE, of Baltimore, Md.  
 ARTHUR GERALD SCHWARTZ, of Baltimore, Md.  
 JOHN JOSEPH SCOCCA, of Philadelphia, Pa.  
 MICHAEL B. SEIDEN, of Baltimore, Md.  
 JOSEPH ANDREW SHALIKA, of Towson, Md.  
 MICHAEL SHER, of New York, N. Y.  
 JOSEPH ARTHUR SHIELDS, Jr., of Newark, Del.  
 JOHN LOMORO SHOMENTA, of Minneapolis, Minn.  
 LEWIS MELVIN SIEGEL, of Baltimore, Md.  
 JAMES RIGG SIMPSON, of Manhasset, N. Y.  
 PETER ARTHUR SMIDINGER, of Baltimore, Md.  
 DONALD WAYNE SMILOVITZ, of Fairfield, Conn.  
 JOHN THORNTON STARR, of Baltimore, Md.  
 JAMES FRED STEWART, of North Caldwell, N. J.  
 RICHARD PHILIP STEWART, of Passaic, N. J.  
 RICHARD JOSEPH STOCK, of Hanover, Pa.  
 CARLYLE BELL STORM, of Baltimore, Md.  
 ROLAND STEVEN SUMMERS, of Billings, Mont.  
 HARRY DAVID TABOR, of Baltimore, Md.  
 WALTER FREDERICK TAPPERT, of Philadelphia, Pa.  
 HENRY FRANKLIN TAPSCOTT, Jr., of Towson, Md.  
 CHARLES HAROLD TAYLOR, Jr., of Greenwich, Conn.  
 WARD M. TERRY, of Staten Island, N. Y.  
 VAUGHN CHRISTIAN THURMAN, of Crisfield, Md.  
 CHARLES EDWARD TILTON, of Dobbs Ferry, N. Y.  
 DONALD SOLOMON TOBIN, of New York, N. Y.  
 JOSEPH PAUL TOMASULO, of Columbus, Ohio  
 PHILLIP PAUL TOSKES, of Baltimore, Md.  
 JOHN HAMMOND URNER, of Hagerstown, Md.  
 LOUIS WALTER VENZA, of Maplewood, N. J.  
 CHARLES THOMAS VOGEL, of Baltimore, Md.  
 JAMES FREDERICK WAESCHE, of Baltimore, Md.  
 GEORGE V. P. WALDO, Jr., of Cheverly, Md.  
 WILLIAM CORNELIUS WARD, Jr., of Baltimore, Md.  
 JOHN JOSEPH WAVRIK, of Sarasota, Fla.  
 ROY WEDELES, Jr., of West Hartford, Conn.  
 MICHAEL WALTER WEINER, of Fair Lawn, N. J.  
 FRANK CARL WEISS, Jr., of Baltimore, Md.  
 C. THOMPSON WELLS, Jr., of Grosse Pointe, Mich.  
 RICHARD LEE WHEEDEN, of Baltimore, Md.  
 ROBERT JOHN WIBBELSMAN, of Fort Lauderdale, Fla.  
 MARC JOSEPH WILLIAMS, of Taunton, Mass.  
 RICHARD BAYLEY WILLIAMS, of Baltimore, Md.  
 RAY ADDISON WILLIAMSON, of Richmond, Va.  
 TERRY CHEN YI WONG, of Honolulu, Hawaii  
 RONALD LEE WOZNIAC, of Union, N. J.  
 RICHARD J. WYATT, of Highland Park, Ill.  
 ROBERT EDWARD YOUNG, of Yardley, Pa.  
 DAVID ERVIN ZABEL, of Baltimore, Md.  
 ALLAN LOUIS ZALESKY, of Baltimore, Md.  
 JERALD JAY ZEGER, of Passaic, N. J.  
 THOMAS WILLIAM ZIEGLER, of Haddonfield, N. J.  
 DONALD EUGENE ZUHL, of St. Joseph, Mich.  
 CLARENCE ZUVEKAS, Jr., of Joplin, Mo.

THEODORE S STERN

211  
(210)



### *Graduating with General Honors*

ARNOLD JEROME ALTMAN  
PAUL JOSEPH ARENA  
GEORGE MAUDUIT BERRY, JR.  
DOUGLAS BRENNER  
RICHARD HEARNE CREECH  
MARTIN STANLEY FEIGENBAUM  
LESLIE JACK FODEMAN  
ROBERT WINSTON GAMMON  
HOWARD BENJAMIN GARFINKEL  
RONALD JOEL GLASSER  
DAVID GEORGE GREENFELD  
WILLIAM HENRY LAMBRIGHT  
DAVID REED LAWRENCE  
SIMON ASHER LEVIN  
NORMAN STUART LEVY  
MICHAEL GEORGE MARENCHIC

PAUL ANTHONY MEYER  
MICHAEL JEROLD MINTZ  
GERALD CORNELIUS MONSMAN  
WILLIAM JOHN NAPE  
HAROLD NICK PAPPAS  
STEVEN ARTHUR ROSENBERG  
ARTHUR GERALD SCHWARTZ  
JOSEPH ANDREW SHALIKA  
LEWIS MELVIN SIEGEL  
RICHARD PHILIP STEWART  
WALTER FREDERICK TAPPERT  
CHARLES HAROLD TAYLOR, JR.  
WILLIAM CORNELIUS WARD, JR.  
JOHN JOSEPH WAVRIK  
RICHARD LEE WHEEDEN  
CLARENCE ZUVEKAS, JR.

### *Graduating with Departmental Honors*

DOUGLAS BRENNER  
J. GRANT BREWEN  
GEORGE EDWARD DICKEY  
RICHARD LEWIS FELDMAN  
ROBERT WINSTON GAMMON  
MICHAEL SANFORD GREENBAUM  
WILLIAM HENRY LAMBRIGHT  
DAVID REED LAWRENCE  
HAROLD LEON LEVIN

WILLIAM GERALD MELSON  
PAUL ANTHONY MEYER  
MICHAEL JEROLD MINTZ  
HAROLD NICK PAPPAS  
ARTHUR GERALD SCHWARTZ  
LEWIS MELVIN SIEGEL  
WILLIAM CORNELIUS WARD, JR.  
JOHN JOSEPH WAVRIK  
CLARENCE ZUVEKAS, JR.

## *BACHELORS OF ENGINEERING SCIENCE*

RICHARD COVAL ALEXANDER, of Baltimore, Md.  
ROLAND ALAN ANDERS, of Baltimore, Md.  
LEO GILBERT APPEL, of Baltimore, Md.  
EDWARD FLORIAN APPLEBY, JR., of Baltimore, Md.  
THEODORE FRANK BAKER, of Baltimore, Md.  
ROGER LEE BALDWIN, of Baltimore, Md.  
RICHARD LEE BALL, JR., of Baltimore, Md.  
JOHN MICHAEL BANNON, of Baltimore, Md.  
WILLIAM EDWARD BEARRY, JR., of Dundalk, Md.  
JOHN PATRICK BEVANS, of Baltimore, Md.  
ALBERT FRANKLIN BOWERS, of Baltimore, Md.  
WILSON ELI BRADLEY, JR., of Baltimore, Md.  
LLOYD RUSSELL BRUCK, of Baltimore, Md.  
MORGAN MALLORY BUCHNER, JR., of Baltimore, Md.  
THOMAS WESLEY BUTLER, of Baltimore, Md.  
LEE MILSTEAD CARTER, of Baltimore, Md.  
LAWRENCE CLYDE CESSNA, JR., of Cumberland, Md.  
ALEXANDER BRINTON COOPER, III, of Baltimore, Md.  
ROBERT MARDEN CROSBY, of Lutherville, Md.  
SALVATORE NICHOLAS CUOMO, of Baltimore, Md.  
REUBEN GORDON DAGOLD, of Baltimore, Md.  
DONALD DAVID DAILY, of Baltimore, Md.  
FRANCIS DARNALL DALEY, JR., of Baltimore, Md.

DAVID HOWARD DOWNES, of Salisbury, Md.  
KENNETH GEORGE EDER, of Timonium, Md.  
JEROME THOMAS ERDMAN, of Baltimore, Md.  
CLARENCE FREDERICK EY, JR., of Baltimore, Md.  
THOMAS MONROE FITZHUGH, of Baltimore, Md.  
JAY WALTER FRANCIS, of Baltimore, Md.  
WILLIAM HENRY FREED, JR., of Baltimore, Md.  
CHARLES DAVID GEIGER, JR., of Paterson, N. J.  
JAMES EDWARD GREENWOOD, of Baltimore, Md.  
WILLIAM CHARLES GRENKE, of Baltimore, Md.  
WILLIAM ARTHUR GROTZ, JR., of Baltimore, Md.  
LAWRENCE PAUL GUNSHOL, of Baltimore, Md.  
RAYMOND LEWIS HARRIS, JR., of Baltimore, Md.  
THEODORE JAMES HARTKA, of Baltimore, Md.  
JOHN WINDER HENRY, IV, of Easton, Md.  
MICHAEL RAYMOND HOPKINS, of Baltimore, Md.  
WILBUR CARL HOSSFELD, JR., of Baltimore, Md.  
ARTHUR LEE HUGHES, of Laurel, Md.  
DONALD LOWELL IRVIN, of Baltimore, Md.  
HAROLD JENS ISLEV-PETERSEN, JR., of Annapolis, Md.  
ERHARD FRIEDRICH JOERES, of Baltimore, Md.  
JAMES HERALD KELLEY, JR., of Sparrows Point, Md.  
SUHAIL B. KHLEIF, of Nazareth, Israel

JAMES ROBERT KISSNER, of Cumberland, Md.  
 JOHN MATTHEW KOTOWSKI, of Baltimore, Md.  
 RICHARD GERARD KOZLOWSKI, of Baltimore, Md.  
 DANIEL BORIS KRIMGOLD, of Bethesda, Md.  
 HARRY GRANT LEET, of Baltimore, Md.  
 MARTIN GOLDEN LICHTENSTEIN, of Baltimore, Md.  
 ALBERT RALPH LIEBERMAN, of Baltimore, Md.  
 PAUL THEODORE LOVEJOY, of Pittsburgh, Pa.  
 PAUL CHARLES MARTI, JR., of Hyattsville, Md.  
 JAMES WILLIAM McALLISTER, III, of Philadelphia, Pa.  
 JOHN ALAN MOYER, of Parkville, Md.  
 ROBERT VAN ORYE, of Baltimore, Md.  
 JAMES OLIVER PAYNE, of Pocomoke City, Md.  
 HARRY SELBY PURNELL, III, of Bronxville, N. Y.  
 JAMES BRINTON ROBINSON, JR., of Baltimore, Md.  
 HAROLD DEAN ROSS, of Cumberland, Md.  
 DELVIN RICHARD RYAN, JR., of Frostburg, Md.  
 JOHN WALTER SCHOENBORN, of Baltimore, Md.  
 RICHARD JAMES SCHUCK, of Baltimore, Md.  
 DONALD LEE SCHUERHOLZ, of Baltimore, Md.  
 GILBERT LAWRENCE SCHUERHOLZ, JR., of Baltimore, Md.  
 DALE LOUIS SCHULER, of Baltimore, Md.  
 THEODORE EDWARD SHEA, II, of Centreville, Md.

SAMUEL DONALD SHERIN, of Baltimore, Md.  
 ANDREW VALDIS SILINSKI, of Gaithersburg, Md.  
 MELVIN JOSEPH SLIWKA, JR., of Baltimore, Md.  
 JAMES CHARLES SMITH, II, of Federalsburg, Md.  
 PAUL STANLEY SMITH, JR., of Baltimore, Md.  
 PIERCE LEE SMITH, of Baltimore, Md.  
 GERARD SPANIER, of Mt. Vernon, N. Y.  
 LEE RICE STEELEY, of Charles Town, W. Va.  
 NORMAN FREDERIC STEKETEE, of West Hartford, Conn.  
 OLIVER CHARLES STOKES, JR., of Baltimore, Md.  
 RICHARD ALAN SWIRNOW, of Baltimore, Md.  
 FREDERICK ONEAL TEETS, of Oakland, Md.  
 JON ROBERT TIEMANN, of Baltimore, Md.  
 DONALD DAVID VILLELLA, JR., of Baltimore, Md.  
 ROBERT JOSEPH WALINCHUS, of Baltimore, Md.  
 THOMAS GRAY WARD, JR., of Baltimore, Md.  
 DAVID MAYER WEINSTEIN, of Baltimore, Md.  
 JOHN THOMAS WEITZEL, of Baltimore, Md.  
 THOMAS MICHAEL WILLEY, of Baltimore, Md.  
 WADE JOSEPH WILLIAMS, of Baltimore, Md.  
 WILLIAM EDWARD WOLF, of Baltimore, Md.  
 WILLIAM BUHR ZEEVELD, of Woodbine, Md.

(91)

### *Graduating with Honors*

RICHARD COVAL ALEXANDER  
 JAY WALTER FRANCIS  
 MARTIN GOLDEN LICHTENSTEIN

ROBERT JOSEPH WALINCHUS  
 THOMAS GRAY WARD, JR.

### BACHELOR OF SCIENCE IN ECONOMICS FRANK ADAMS BAKER, JR.

(1)

### *MASTERS OF SCIENCE IN ENGINEERING*

#### *with titles of essays*

GUILLERMO ALARCÓN ORALLANA, of Sucre, Bolivia, Civil Engineer Tomás Frias University, Bolivia, 1956. Sanitary Engineering and Water Resources.

Removal of Phosphorus from Sewage.

NORIG GARO ASBED, of Baltimore, Md. Electrical Engineering.

Theory of Single Crystal Semiconductor Thin Films.

ARTHUR U. AYRES, JR., of Lutherville, Md., B. S. Swarthmore College, 1956. Electrical Engineering.

A Technique for the Design of Low Noise Transistor Amplifiers.

MICHAEL ST. CLAIR BATSON, of Off Port of Spain, Trinidad, West Indies, B. S. St. Mary's College, Trinidad, 1939. Sanitary Engineering and Water Resources.

The Effect of Anaerobic Sludge Digestion on the

Development of the Eggs of *Ascaris Lumbricoides* var. SUUM.

SACHINDRANARAYAN BHADURI, of Calcutta, India, B. M. E. Calcutta University, 1946; M. S. State University of Iowa, 1956. Mechanics.

Dissipated Laminar Flow of Fluid with Temperature Dependent Viscosity Through a Tube of Circular Cross Section.

DEREK KINGSLEY BRADY, of Wellington, New Zealand, B. E. Auckland University College School of Engineering, 1956. Sanitary Engineering and Water Resources.

The Estimation of Turbidity in Water.

JOHN JOSEPH CLANCY, of Wilmington, Del., B. S. University of Illinois, 1959. Chemical Engineering.

The Electronic Analog Computer.

- ROGER PEARSON DENNEY, JR., of Frederick, Md., B.E.S. The Johns Hopkins University, 1959. Industrial Engineering.  
An Experimental Comparison of the Fairchild Teletypesetter Perforator and the Photon Cleantape Perforator for Setting News Copy.
- JOHN ERIC EDINGER, of Kingston, N.Y., B. of Civil Engr. Union College, Schenectady, N.Y., 1960. Sanitary Engineering and Water Resources.  
A Method of Analysis for Studying the Economic Effect of Local Flood Protection Measures.
- DONALD LOUIS FINK, of Baltimore, Md., B.E.S. The Johns Hopkins University, 1959. Industrial Engineering.  
Objective Assistance for Decision Making in College Admissions.
- CLIFFORD JOSEPH FRALEN, of Baltimore, Md., B.S. United States Military Academy, 1955. Mechanics.  
Response of a First Order Linear Equation to a Non-Gaussian Random Process.
- JOSEPH ANTON HEINRICHS, of Baltimore, Md., B.E.S. The Johns Hopkins University, 1955. Mechanics.  
An Experimental Study of 0.483 Inch Diameter Aluminum Bars Under Constant Velocity Impact.
- RICHARD KUO CHI HSIEH, of Baltimore, Md., B.E.S. The Johns Hopkins University, 1957. Industrial Engineering.  
A Study of Linen Processing and Distribution in a Hospital.
- APOLINARY LESZEK KOWAL, of Rosenbergow, Poland, B.S. Wroclaw Institute of Technology, Poland, 1954; M.S. 1956. Sanitary Engineering and Water Resources.  
Seeding of the Filter with Managnese for Manganese Removal.
- SUH YONG LEE, of Seoul, Korea, B.S. in Ch. E. Bucknell University, 1959. Chemical Engineering.  
The Experimental Study of a Spherical Premixed Flame.
- GEZA ALEXANDER MAGONY, of Baltimore, Md. Mechanics. Understanding the Vortex Tube.
- DRAGOSLAV SVETOZAR MARJANOVIC, of Belgrade, Yugoslavia. Sanitary Engineering and Water Resources.  
Effects of Calcium Ion Upon Water Corrosion of Iron.
- JOHN WILLIAM MCCUTCHEON, of Baltimore, Md., A.B. Hamilton College, 1958. Industrial Engineering.  
Forecasting Manning Requirements in the Advertising Division of a Newspaper Composing Room.
- JAMES HUGHES MCKAY, JR., of Baltimore, Md., B.A. The Johns Hopkins University, 1952. Sanitary Engineering and Water Resources.  
A Regression Analysis Study of Uplands Drainage Area Rainfall-Runoff Data.
- LEWIS GARY MILLER, of Baltimore, Md., B.E.S. The Johns Hopkins University, 1957. Mechanics.  
The Semi-Infinite Body with Exponential Boundary Conditions.
- S. MURRAY MILLER, of Baltimore, Md., B.E. The Johns Hopkins University, 1953. Mechanics.  
An Economic Analysis of Highway Design Over Soft Unsuitable Soils.
- HUGH BERT MONTAGUE, of Denver, Colo. Mechanics. Stagnation Point Ablation.
- ANDREAS RANNESTAD, of Oslo, Norway, B.E.S. the Johns Hopkins University, 1959. Electrical Engineering.  
The Effect of Ultraviolet Radiation on D-C Resistance of Printed Wiring Board.
- ILMAR GUSTAV RAUDSEP, of Tallinn, Estonia, B.S. Swarthmore College, 1956. Electrical Engineering.  
The Application of Correlative Arrays in Deep Acoustic Systems.
- MULLOOR LALAJI SALIAN, of Mangalore, India, B.E. University of Madras, 1950. Sanitary Engineering and Water Resources.  
Applicaton of Chlorine Disinfection to Indian Sanitary Engineering Practice.
- ROBERT GORDON SANFORD, of Baltimore, Md., B.E.S. The Johns Hopkins University, 1958. Civil Engineering.  
Structural Analysis and Design Considerations for Shipping Containers of Highly Radioactive Materials.
- WALLACE MEADE WERNER, of Baltimore, Md., B.E.S. The Johns Hopkins University, 1956. Mechanics.  
The Applicability of the Strain Rate Independent Theory of Plastic Wave Propagation in Annealed Copper.

(27)



## DOCTORS OF ENGINEERING

*with titles of dissertations*

MARVIN COHN, of Baltimore, Md., B. S. E. E. Illinois Institute of Technology, 1950; M. S. E. E. 1953. Electrical Engineering.

Propagation in Partially Dielectric Loaded Parallel Plane and Trough Waveguides.

CLARENCE CRAMER GLOVER, of Baltimore, Md., B. S. in E. E. University of Missouri, 1948; M. S. University of Pittsburgh, 1952. Electrical Engineering.

Optimum Prediction with a Mean Weighted Square Error Criterion.

ROBERT LOUIS KONDNER, of Deerfield, Ill., B. E. The Johns Hopkins University, 1954; M. S. E. 1956. Civil Engineering.

The Static and Dynamic Phenomenological Macrorheology of Cohesive Soils.

STANLEY MIDDLEMAN, of Rochester, N. Y., B. E. S. The Johns Hopkins University, 1958. Chemical Engineering.

Expansion and Contraction of Jets of Newtonian and Non-Newtonian Liquids.

DAVID MARK PROMISEL, of Silver Spring, Md., B. E. S. The Johns Hopkins University, 1956. Industrial Engineering.

Visual Target Location as a Function of Number and Kind of Competing Signals.

MOSHE SEGAL, of Haifa, Israel, B. Sc. in M. E. Israel Institute of Technology, 1955; Ingenieur (M. E.) 1956. Industrial Engineering.

On the Behavior of Queues Subject to Job Shop Conditions.

SIDNEY SINGER, of Toronto, Canada, B. of Appl. S. University of Toronto, 1956. Industrial Engineering.

A Stochastic Model of Variation of Categories of Patients within a Hospital.

JOSEPH SPERRAZZA, of Aberdeen, Md., B. M. E. Cooper Union, 1941; M. S. E. The Johns Hopkins University, 1950. Mechanics.

Propagation of Large Amplitude Waves in Pure Lead.

FU-TIEN SUNG, of Taipei, Formosa, B. Sc. in Engineering National Taiwan University, 1950; M. S. University of Colorado, 1956. Mechanics.

A Cauchy Problem in the General Theory of Thin Shells.

STEVEN MICHAEL SUSSMAN, of Baltimore, Md., B. S. Massachusetts Institute of Technology, 1953; M. S. 1953. Electrical Engineering.

Least-Square Synthesis of Radar Ambiguity Functions.

WARREN VIESSMAN, JR., of Baltimore, Md., B. E. The Johns Hopkins University, 1952; M. S. E. 1958. Sanitary Engineering and Water Resources.

A Study of the Characteristics of the Inlet Hydrograph.

M. JOSEPH WILLIS, of Swarthmore, Pa., B. S. in C. E. University of Washington, 1940; M. C. E. Cornell University, 1941. Sanitary Engineering and Water Resources.

Joint Operation of Gravity Reservoirs and Pumped Supply.

(12)

## BACHELORS OF SCIENCE

RALPH HOMER ALLEN, of Aberdeen, Md.

WILLIAM BONDAY BARGET, of Towson, Md.

DOROTHY MAE BENSEL, of Baltimore, Md.

BETTY JANE BERMAN, of Baltimore, Md.

WILMA MCGUIRE BINSWANGER, of Baltimore, Md.

ELSA F. BRENNER, of Baltimore, Md.

ELIZABETH ALLENE BURTT, of Exeter, N. H.

HAZEL VIRGINIA CARR, of Baltimore, Md.

HARRIET S. CHARRICK CASTLEMAN, of Baltimore, Md.

EDWARD DEAN CLUTTER, of Baltimore, Md.

FLORENCE HAMMACK CONNELLY, of Baltimore, Md.

JOSEPH PATRICK CORRIGAN, III, of Glen Burnie, Md.

JAMES JOHN CRIDER, of Baltimore, Md.

DONALD MARTIN DAVIS, of Washington, D. C.

CHARLES UPTON DAYHOFF, of Jarrettsville, Md.

CHARLES CLAYTON DIGGS, of Towson, Md.

ROSSER LEE DUVAL, JR., of Timonium, Md.

CARL EDISON ELLIS, of Towson, Md.

LEON ESKENAZI, of Glen Burnie, Md.

JOSEPH WARREN FINK, of Baltimore, Md.

LILLIAN BERNICE FOX, of Baltimore, Md.

LINDSAY CARLTON FRIEND, of Lutherville, Md.

JOSEPH LEROY FULLER, of Annapolis, Md.

LOWRY BOWMAN FURST, JR., of Towson, Md.

MARY RICHARDSON GARNER, of Baltimore, Md.  
 RICHARD WATSON GRAY, of Baltimore, Md.  
 BERNARD FRANCIS GUGERTY, of Baltimore, Md.  
 LOUIS THOMAS GUNKEL, of Pasadena, Md.  
 ERMA LOUISE GUY, of Washington, D. C.  
 CARLETON WARD HAYEK, of Baltimore, Md.  
 WILLIAM JOSEPH HEFFNER, of Baltimore, Md.  
 LOUIS FREDERICK HELM, of Baltimore, Md.  
 FRANK ALVIN HENSEL, of Baltimore, Md.  
 CHARLES WORTHINGTON HOFF, III, of Baltimore, Md.  
 JAMES MALCOLM HOLWAY, of Elkridge, Md.  
 EDWIN DAVID HOOFNAGLE, of Baltimore, Md.  
 NANCY HANNA HUNT, of Baltimore, Md.  
 JOSEPH CHARLES JACOBS, of Baltimore, Md.  
 FRIMA SCHOOLMAN KAIN, of Hyattsville, Md.  
 BURRELL GRESHAM KILMER, JR., of Baltimore, Md.  
 THELMA VIRGINIA LANCASTER, of Baltimore, Md.  
 LIBBY BENNETT LEIBERT, of Baltimore, Md.  
 PATRICIA ANN STRAUSSER LOCKNER, of Baltimore, Md.  
 JACKSON ST. CLAIR LONGSTRETH, of Baltimore, Md.  
 DOROTHY KAPPEL LYNAS, of Baltimore, Md.  
 KENNETH ROY MAAG, of Baltimore, Md.  
 MARGARET O. MADDOX, of Baltimore, Md.

DOROTHY WOHRNA MARTIN, of Baltimore, Md.  
 MARY CAROL MOYER, of Baltimore, Md.  
 THOMAS GORDON NICKLAS, of Baltimore, Md.  
 RICHARD FRANCIS PACKARD, of Timonium, Md.  
 CLIFFORD ALLAN PARKS, of Baltimore, Md.  
 RICHARD CLARKE POHL, of Baltimore, Md.  
 GEORGE LEWIS PRUETT, JR., of Bel Air, Md.  
 JAMES SHANNON RAAB, of Glen Burnie, Md.  
 RISSELLE ROSENTHAL, of Baltimore, Md.  
 BEVERLY ANNE BUTTNER ROSSI, of Baltimore, Md.  
 RICHARD NORMAN SANNER, of Baltimore, Md.  
 MARGARET MARIE SCHAUB, of Baltimore, Md.  
 MARY JO SCHMIDT, of Gordon, Nebr.  
 JUDITH SIMKIN, of Baltimore, Md.  
 CAROL STERN, of Baltimore, Md.  
 GUENTHER WILHELM STRITTMATTER, of Baltimore, Md.  
 GERHARDT WILLIAM STROHSACKER, of Baltimore, Md.  
 JOHN ANDERSON THIELMAN, of Baltimore, Md.  
 GEORGE WILLIAM VIEHMEYER, of Linthicum Heights, Md.  
 WILLIAM ADAM VOELKER, of Baltimore, Md.  
 JAMES WILSON WEBSTER, of Baltimore, Md.  
 LEILA A. HILL WILLIAMS, of White Hall, Md.  
 SANDRA ELIZABETH WILT, of Baltimore, Md.

(70)

### *Graduating with Honors*

DOROTHY MAE BENSEL  
 DOROTHY WOHRNA MARTIN

BEVERLY ANN ROSSI  
 MARGARET MARIE SCHAUB

### *BACHELORS OF SCIENCE IN NURSING*

NANCY ANN BEBEAU, of Baltimore, Md.  
 ELIZABETH ANN COLE, of Weston, Mass.  
 RUTH ELIZABETH LINDOW HARROWER, of Livingston, N. J.

DIANE MCCLENNEY MACRAE, of Baltimore, Md.  
 ANNE WEST, of Ogden, Utah

(5)

### *BACHELORS OF SCIENCE IN ENGINEERING*

JOHN DARRETT ALLEN, of Baltimore, Md.  
 GEORGE LEROY ANDERSON, of District Heights, Md.  
 ROBERT ELLSWORTH BALLESTEROS, of Baltimore, Md.  
 ROBERT BRUCE BELL, of Baltimore, Md.  
 SAMUEL ANTHONY BELLESTRI, of Baltimore, Md.  
 WALTER JOSEPH BERAN, of Baltimore, Md.  
 GORDON MORRIS BETZ, of Baltimore, Md.  
 EDWARD ALLAN BRAGER, of Baltimore, Md.  
 CHARLES HECKNER CHANDLER, of Baltimore, Md.  
 GEORGE ROBERT COZENS, of Towson, Md.  
 FRANK DOMINIC DI GIORGIO, of Baltimore, Md.  
 MICHAEL EDWARD DORCZAK, of Baltimore, Md.  
 JOHN WILLIAM DOZIER, of Baltimore, Md.  
 ELMONT BILLY DRAYTON, of Baltimore, Md.  
 FRED PAUL ESBRANDT, of Baltimore, Md.

GEORGE ANDREW FIEDLER, of Baltimore, Md.  
 CHARLES HENRY FISCHBACH, JR., of Baltimore, Md.  
 JOSEPH EMMETT FOLEY, JR., of Baltimore, Md.  
 JOHN GERARD GEELHAAR, of Baltimore, Md.  
 CHARLES ROBERT GNEITING, of Baltimore, Md.  
 WILLIAM H. GOWLAND, of Baltimore, Md.  
 HENRY MEINHARD HARBERTS, JR., of Baltimore, Md.  
 FRANK ROLAND HAUSER, of Baltimore, Md.  
 WILLIAM NORMAN HEDEMAN, of Baltimore, Md.  
 HERBERT HARRY HOCHHALTER, of Baltimore, Md.  
 FRANK PARLETTE HODGES, of Baltimore, Md.  
 MANFRED KAUFMANN, of Baltimore, Md.  
 IRVIN L. KEEFER, of Linthicum Heights, Md.  
 RONALD HIRAM KLAIR, of Bel Air, Md.  
 HARRY WILLIAM KLUTH, JR., of Baltimore, Md.

WALTER ALOYSIUS KOVALCHEK, of Baltimore, Md.  
 MILTON KRAFT, Jr., of Baltimore, Md.  
 WILLIAM ROSS KRUSE, of Baltimore, Md.  
 WILLIAM KRUSHINSKI, of Baltimore, Md.  
 CHARLES JAMES KULISHEK, of Baltimore, Md.  
 ROBERT WARREN KUMMER, of Baltimore, Md.  
 HENRY CHARLES LEAHY, of Glen Burnie, Md.  
 CARL WILMER MAGEE, of Randallstown, Md.  
 JAMES ROBERT MCFARLAND, of Baltimore, Md.  
 RAYMOND CULLEN MCGEADY, of Baltimore, Md.  
 EDWARD HOWARD MIDDLETON, of Baltimore, Md.  
 VYLIUS NASTOPKA, of Baltimore, Md.  
 DONALD EDWARD NEUDECKER, of Westminster, Md.  
 MICHAEL EDWARD NIKONCHUK, of Baltimore, Md.  
 JOHN HENRY PRUSSING, of Baltimore, Md.  
 ARTHUR LAWRENCE RABIN, of Baltimore, Md.  
 CHARLES FREDERICK RASCH, JR., of Baltimore, Md.  
 WILLIAM KRAMER RAU, JR., of Baltimore, Md.  
 ARTHUR ELWOOD REIDER, of Baltimore, Md.  
 ERNEST CARROLL REINMUTH, of Baltimore, Md.  
 PETER PATRICK RICCI, of Baltimore, Md.  
 MELVIN WILLIAM RICHTER, of Baltimore, Md.  
 NORMAN EDWIN ROCKWELL, of Baltimore, Md.  
 ARTHUR RUNYON, of Baltimore, Md.  
 ALFRED LEO RYAN, of Baltimore, Md.

WESLEY RANDOLPH SAMOSUK, of Baltimore, Md.  
 DONALD MERVIN SANDLER, of Baltimore, Md.  
 MAYER SAVETMAN, of Baltimore, Md.  
 GEORGE CONRAD SCHLAFFER, of Baltimore, Md.  
 ALBERT HERMAN SCHLUETER, of Linthicum Heights, Md.  
 DANIEL STEPHEN SCHNEIDER, of Baltimore, Md.  
 WILLIAM MARTIN SCHOENEMANN, of Brooklyn Park, Md.  
 HARVEY SILBERMANN, of Baltimore, Md.  
 STANLEY STEPHEN SIUTA, of Baltimore, Md.  
 JOHN HENRY STAEBLIN, of Baltimore, Md.  
 JOHN CHRYSANTHOU STRONGYLOS, of Kyrenia, Cyprus  
 EDWARD ADALBERT SZYMKOWIAK, of Baltimore, Md.  
 MORRIS MELVIN TAMRES, of Baltimore, Md.  
 JAMES STUART TAYLOR, of Baltimore, Md.  
 JOHN JOSEPH TRENNER, of Glen Arm, Md.  
 THOMAS ROYAL TURLINGTON, of Linthicum, Md.  
 RICHARD JAMES TURNER, of Severna Park, Md.  
 CHRISTOPHER ROBERT VALE, of Baltimore, Md.  
 JOHN CLARENCE WALKER, JR., of Baltimore, Md.  
 WILLIAM JOHN WEISMAN, JR., of Baltimore, Md.  
 WILLIAM EDWIN WICKES, of Baltimore, Md.  
 HARRY MARTIN WILL, JR., of Baltimore, Md.  
 JAMES DELBERT WOERMBKE, of Linthicum, Md.  
 JOSEPH JOHN ZURAW, of Baltimore, Md.

(79)

### *Graduating with Honors*

EDWARD ALLAN BRAGER  
 CHARLES HECKNER CHANDLER  
 JOHN WILLIAM DOZIER  
 HERBERT HARRY HOCHHALTER  
 MILTON KRAFT, JR.  
 DONALD EDWARD NEUDECKER

WILLIAM KRAMER RAU, JR.  
 JOHN HENRY STAEBLIN  
 CHRISTOPHER ROBERT VALE  
 WILLIAM EDWIN WICKES  
 HARRY MARTIN WILL, JR.

## *MASTER OF SCIENCE IN ENGINEERING*

*in McCoy College*

*with title of essay*

THEODORE NICHOLAS TRUSKE, of Arbutus, Md., B.S.E.E.  
 University of Illinois, 1956. Electrical Engineering.  
 Reducing the Effects of Sidelobe Signals.

(1)



## *MASTERS OF EDUCATION*

- JOHN BERRY BELL, JR., of Kingsville, Md., B. S. The Citadel, 1946.
- ANN ALICE BEUSCH, of Silver Spring, Md., B. A. McGill University, 1948; M. A. Laval University, 1949.
- ANNA K. BLOOM, of Baltimore, Md., B. S. The Johns Hopkins University, 1941.
- RUTH JEWEL BOETCHER, of Baltimore, Md., A. B. Goucher College, 1926.
- HARRY MARSHALL BURDETTE, JR., of Towson, Md., A. B. The Johns Hopkins University, 1951.
- JAMES ENTWISTLE CANTLER, of Brooklandville, Md., B. A. Washington and Lee University, 1950.
- STEWART FRANKLIN CUSHWA, of Baltimore, Md., B. Ed. Duquesne University, 1951.
- S. LEONORE ASTRIN DICKMAN, of Baltimore, Md., B. S. The Johns Hopkins University, 1958.
- MERRILL TRAYLOR EGGER, of Baltimore, Md., B. S. in Ed. Ohio State University, 1944.
- CHARLES GERALD EYTH, of Baltimore, Md., B. M. The Peabody Conservatory of Music, 1957.
- JAMES VINCENT FERDINAND, of Baltimore, Md., B. S. Bloomsburg State Teachers College, Pa., 1953.
- STEPHEN FRANK FROMYER, of Glen Burnie, Md., A. B. Baylor University, 1948.
- NORMA KEECH FULTON, of Baltimore, Md., B. S. in Ed. State Teachers College, Salem, Mass., 1946.
- WILLIAM LEE GRAY, of Baltimore, Md., B. S. State Teachers College, Towson, Md., 1955.
- LILLIAN HOFFMAN GREEN, of Baltimore, Md., B. S. The Johns Hopkins University, 1936.
- MARIAN LONGSTRETH GRIEB, of Chestertown, Md., A. B. Hood College, 1943.
- PATRICIA HARRISON, of Baltimore, Md., A. B. Goucher College, 1952.
- HILDA WEINER HILLMAN, of Randallstown, Md., B. S. State Teachers College, Towson, Md., 1957.
- NORMAN HIMELFARB, of Baltimore, Md., B. A. The Johns Hopkins University, 1955.
- ROBERT MONCURE LATANÉ, of Baltimore, Md., B. S. University of Maryland, 1951.
- DONALD JESSOP MILLER, of Dover, Pa., A. B. Franklin and Marshall College, 1954.
- PATRICIA ANN MOORE, of Baltimore, Md., A. B. Goucher College, 1957.
- JEANNE RUTH PAYNE MURPHY, of Baltimore, Md., B. A. College of Notre Dame of Maryland, 1942.
- RUTH JEANNETTE PAYNE, of Baltimore, Md., B. S. in Ed. Bluefield State College, W. Va., 1955.
- ELEANOR REBEKAH PEARCE, of Baltimore, Md., B. S. University of Delaware, 1952.
- EMANUEL JOSEPH PICEK, of Baltimore, Md., B. S. University of Maryland, 1951.
- PHYLLIS MAXINE HALL REDIFER, of Ellicott City, Md., B. S. in Elem. Ed. Macalester College, 1951.
- GERTRUDE YEOMANS RETZER, of Baltimore, Md., S. B. University of Chicago, 1942.
- CATHERINE ANN FITZPATRICK RITTER, of Towson, Md., A. B. Goucher College, 1958.
- RUTH WALERSTEIN ROSEN, of West Lafayette, Ind., B. S. University of Wisconsin, 1958.
- MARY REINDOLLAR SCHOMANN, of Lutherville, Md., B. S. State Teachers College, Towson, Md., 1941.
- LUCRETIA HEISEY SHROAT, of Baltimore, Md., A. B. Dickinson College, 1933.
- RAYMOND HIBBERD SMITH, of Timonium, Md., B. S. in Pharm. Rhode Island College of Pharmacy, 1940.
- WANDA S. TARKA, of Towson, Md., B. S. in Ed. Westfield State Teachers College, Mass., 1956.
- ELEANOR BRUEHL TURNBAUGH, of Reistertown, Md., B. S. Elem. Ed. University of Maryland, 1957.
- JOHN PHILLIPS WILSON, of Baltimore, Md., B. A. Mississippi Southern College, 1957.
- CHARLES WOLFE, of Baltimore, Md., B. S. University of Maryland, 1938.

(37)

## CERTIFICATES OF ADVANCED STUDY IN EDUCATION

RODNEY LEROY HOOVER, of Baltimore, Md., B. S. Shippensburg State Teachers College, Pa., 1953; M. A. George Washington University, 1957.

WILLIAM JACK JACOBSON, of Baltimore, Md., A. B. Harvard University, 1927; M. A. 1939.

MARIAN FRANCES McNAMARA, of Washington, D. C., B. A. St. Xavier College for Women, 1946; M. A. Catholic University, 1949.

JOHN FRANCIS SULLIVAN, of Timonium, Md., B. S. Springfield College, 1949.

M. LEONA PARKS WERNER, of Catonsville, Md., B. S. The Johns Hopkins University, 1940.

(5)

## MASTERS OF SCIENCE IN HYGIENE

*with titles of theses*

BETTY LIGGETT CUTHBERT, of Marysville, Ohio, B. S. The Johns Hopkins University, 1953; M. P. H. 1960. Public Health Administration (Mental Hygiene).

Mental Hygiene Seminars with a Group of Student Nurses during the Pre-Clinical Period of Nursing Education.

SHANTA GUPTA, of Hyderabad, India, B. S. Nizam College (Osmania University), 1954. Biochemistry.

The Nucleases and Their Inhibitors in the Cellular Components of Human Blood.

JAMES WILLIAM JOHNSON, of Baltimore, Md., B. S. The Johns Hopkins University, 1953. Biochemistry.

An Application of the Fluorescent Antibody Technic to the Study of Cardiac Lesions of Rheumatic Fever.

MARY BRADLEY MEYER, of Baltimore, Md., A. B. Vassar College, 1937. Epidemiology.

An Epidemiological Study of Mumps; Its Spread in Schools and Families.

JAMES EMILE MOSIMANN, of Charleston, S. C., B. A. University of Michigan, 1952; M. S., 1953; Ph. D., 1956. Biostatistics.

On the Compound Multinomial Distribution, The Multivariate Beta Distribution, and Correlations of Proportions.

MARY JANE VOLL, of Baltimore, Md., A. B. Mount Saint Agnes College, 1955. Biochemistry.

Recombination during Transformation in *Hemophilus Influenzae*.

(6)

## DOCTORS OF SCIENCE IN HYGIENE

*with titles of theses*

HELEN VIRGINIA COATES, of Scottsville, N. Y., D. V. M. Cornell University, 1954. Pathobiology.

Rous Sarcoma Virus in the Embryonated Hen's Egg, with Special Reference to the Endothelium.

THEODORE COLTON, of Brooklyn, N. Y., A. B. Brooklyn College, 1953; M. S. University of North Carolina, 1958. Biostatistics.

Optimum Multi-Stage Screening Plans.

ELENA EUSTAQUIO ICAYAN, of Marikina, Republic of the Philippines, M. D. University of the Philippines, 1953. Biochemistry.

The Relationship between Vitamin B<sub>12</sub> and Cholesterol Metabolism.

STUART MITCHELL KRASSNER, of New York, N. Y., B. S. Brooklyn College, 1957. Pathobiology.

Experimental Studies on *Eimeria acervulina*, a Coccidian Parasite of Chickens.

JAMES ARMON LLOYD, of Mountaintop, Pa., B. S. Pennsylvania State University, 1955; M. S., 1957. Public Health Administration (Mental Hygiene, Comparative Behavior).

The Interrelationships of Hormonal and Environmental Stimuli as Factors in the Induction of the Incubation Patch in the European Starling.

LARRY SPURGEON ROBERTS, of Dallas, Tex., B. S. Southern Methodist University, 1956; M. S. University of Illinois, 1958. Pathobiology.

The Influence of Population Density on Patterns and Physiology of Growth in *Hymenolepis diminuta* (Cestoda: Cyclophyllidae) in the Definitive Host.

(6)

## *MASTERS OF PUBLIC HEALTH*

- SIGURD RIBER ALBRECHTSEN, of Copenhagen, Denmark, M. D. University of Copenhagen, 1948; M. P. H., 1956.
- GOVIND JHAMATMAL AMBWANI, of Ahmedabad, India, M. B. B. S. Bombay University, 1948; D. P. H. University of Calcutta, 1952.
- FABIO ARIAS ROJAS, of Caracas, Venezuela, M. D. University of Zulia, 1952.
- HUSSAIN HATIF AL-ATYA, of Hilla, Iraq, M. B. Ch. B., Baghdad University, 1948.
- RAY DON BAKER, of Amarillo, Tex., B. A. Texas Technological College, 1951; M. D. University of Texas, 1955.
- JITENDRA KUMAR BHATNAGAR, of Dehradun, India, B. Sc. Lucknow University, 1938; M. B. B. S., 1944; D. P. H. University of Calcutta, 1951.
- JAMES E. BLEADINGHEISER, of Ravenna, Ohio, B. S. Kent State University, 1948; B. S. Ohio State University, 1953.
- JOSE G. CANCHOLA MOLINA, of Mexico City, Mexico, M. D. National Autonomous University of Mexico, 1952.
- HAROLD RUSSELL CHAPPELL, of Oakland City, Ind., B. S. Indiana University, 1947; M. D., 1950.
- CH'Y I-CHENG, of Weihaiwei, China, M. B. Tsing-Tao Medical College, 1945.
- DIBYENDU SIKHAR CHOUDHURY, of Delhi, India, M. B. B. S. University of Calcutta, 1949.
- RICHARD ALVIN DAVISON, of Danville, Pa., A. B. Dartmouth College, 1953; M. D. Hahnemann Medical College, 1957.
- SOLON DE CAMARGO, of Rio de Janeiro, Brazil, M. D. School of Medicine and Surgery of the Hahnemann Institute, Brazil, 1935.
- FELIX FAJARDO DE LA CRUZ, of Las Pinas, Republic of the Philippines, M. D. University of Santo Tomas, 1956.
- VERNON BERT DETTOR, of La Plata, Md., B. S. Kent State University, 1948; M. D. The Jefferson Medical College of Philadelphia, 1953.
- WALLACE FONT, of Rochester, N. Y., B. A. University of Rochester, 1944; M. D. Marquette University, 1947.
- ALICE MARCH FORMAN, of Upper Montclair, N. J., B. A. The College of Wooster, 1941; M. N. Yale University, 1945; M. A. Columbia University, 1960.
- JOHN ELLSWORTH FRANK, of Union Furnace, Ohio, D. D. S. University of Minnesota, 1948.
- JEAN G. FRENCH, of Mineola, N. Y., B. S. Cornell University, 1949; M. A. Columbia University, 1955.
- ALICE ELEANOR GIFFORD, of Chapel Hill, N. C., A. B. University of North Carolina, 1935; M. N. Yale University, 1938.
- RENE GONZALEZ UZCATEGUI, of Caracas, Venezuela, M. D. Central University of Venezuela, 1951.
- ENRIQUE GRANDE, of Buenos Aires, Argentina, M. D. University of Buenos Aires, 1945.
- HOWARD S. HUDSON, of St. Petersburg, Florida, M. D. Hahnemann Medical College, 1936.
- GEORGE JOJI INADA, of Rockville, Md., B. A. Hiram College, 1950; M. A. Kent State University, 1951.
- ANDREW ZELLUS KELLER, of Chattanooga, Tenn., B. S. Morehouse College, 1949; D. M. D. Harvard University, 1959.
- SAMUEL LICKLIDER, of Columbus, Ohio, A. B. Cornell University, 1953; M. D., 1957.
- DAISY YUN YIN LIN, of Shanghai, China, B. A. Smith College, 1952; M. D. Woman's Medical College of Pennsylvania, 1956.
- GUILLERMO LLANOS BEJARANO, of Cali, Colombia, M. D. University of Valle, 1960.
- SAMUEL MERRILL, of Austin, Tex., B. S. University of Texas, 1957.
- DAVID PAUL MICHENER, of San Francisco, Calif., A. B. Antioch College, 1948; M. D. Harvard University, 1952.
- SAMUEL MILHAM, JR., of Albany, N. Y., B. S. Union College, 1954; M. D. Albany Medical College, 1958.
- ROBERT WILLIAM MOSELEY, of Ellerson, Va., B. S. College of William and Mary, 1948; M. D. Medical College of Virginia, 1948.
- BASAVAPATNA SREEKANTIAH NAGARAJ, of Hassan, India, B. Sc. University of Mysore, 1937; M. B. B. S., 1944; D. P. H. University of Calcutta, 1951.
- SIVARAMA SANKARAN NAIR, of Trivandrum, India, M. Sc. University of Travancore, 1945; M. Sc. University of Calcutta, 1948.
- KADUR SIDDAPPA NANJUNDIAH, of Shimoga, India, M. B., B. S. University of Mysore, 1941; D. P. H. University of Calcutta, 1946.
- STUART CONNELL NOTTINGHAM, of Norfolk, Va., B. S. University of Richmond, 1951; M. D. Medical College of Virginia, 1955.
- JAMES BAKER NUTTALL, of Arlington, Va., B. S. University of Maryland, 1938; M. D., 1939.



- WILLIAM C. E. PFISCHNER, of Pittsburgh, Pa., B. S. University of Pittsburgh, 1944; M. D., 1948.
- JOHN PHILLIP, of Masulipatnam, India, M. B. B. S. Andhra University, 1954.
- LEWIS DAVID POLK, of Philadelphia, Pa., A. B. University of Pennsylvania, 1949; M. D., 1953.
- JUAN CHICOTE PORTES, JR., of Pasay City, Republic of the Philippines, M. D. University of the Philippines, 1950.
- ANTHONY JOHN READING, of Sydney, Australia, M. B. B. S. University of Sydney, 1957.
- ABRAHAM M. SCHNEIDMUHL, of Baltimore, Md., M. D. University of Nancy, 1939.
- NAZAR SHAKIR SELEEM, of Baghdad, Iraq, M. B. Ch. B. Baghdad University, 1954.
- JOHN DOUGLAS SENEVIRATNE, of Kandy, Ceylon, M. B. B. S. University of Ceylon, 1951.
- JOE LEE STOCKARD, of Lee's Summit, Mo., B. S. Yale University, 1945; M. D. University of Kansas, 1948.
- AHMED ALI THAMER, of Baghdad, Iraq, M. B. Ch. B. Baghdad University, 1949.
- MAHMUD A. THAMER, of Baghdad, Iraq, A. B. University of California, Berkeley, 1952; M. D. Harvard University, 1956.
- RAMON VILLARREAL, of San Luis Potosi, Mexico, M. D. National Autonomous University of Mexico, 1944; M. Sc. Northwestern University, 1946.
- WILLIS FORREST WUNDER, of Tampa, Fla., B. S. Loyola University of the South, 1955; M. D. Medical College of Virginia, 1958.
- FREDERICK M. ZERZAVY, of Baltimore, Md., M. D. University of Zagreb, 1942.

(51)

## DOCTORS OF PUBLIC HEALTH

*with titles of theses*

- ALFRED ANDREAS BUCK, of Hamburg, West Germany, M. D. University of Hamburg, 1945; M. P. H. The Johns Hopkins University, 1959. Epidemiology.  
Epidemiologic Investigations on Sarcoidosis.
- ROBERT HUTSON KOKERNOT, of Alpine, Tex., D. V. M. Agricultural and Mechanical College of Texas, 1946; M. D. Baylor University, 1950; M. P. H. The Johns Hopkins University, 1952. Epidemiology.  
A Study of Results Obtained by Hemagglutination-Inhibition Tests and Neutralization Tests with Arthropod-Borne Viruses in a Serologic Survey of Residents of Portuguese East Africa.

(2)

## DOCTORS OF MEDICINE

- CHARLES RICHARD FURMAN BAKER, JR., of Sumter, S. C., A. B. Princeton University, 1957.
- JACK DELANO BARGAINER, of Baytown, Tex., B. A. University of Texas, 1957.
- BEN EDWARD BECKER, JR., of Dallas, Tex., B. A. Baylor University, 1957.
- ELWIN BERGER, of Denver, Colo., A. B. Harvard College, 1957.
- PHILIP JEFFREY BOWER, of Alexandria, Va., A. B. University of Virginia, 1957.
- PAUL WHEELER BROWN, of Englewood, N. J., A. B. Harvard College, 1957.
- TORREY C. BROWN, of Urbana, Ill., A. B. Wheaton College, 1957.
- EDWARD FREDERIC GREGG BUSSE, of Shaunavon, Saskatchewan, Canada, A. B. University of Saskatchewan, 1957.
- HAROLD STANLEY ROY BYRDY, of Pittsfield, Mass., A. B. Williams College, 1957.
- SALVATORE JAMES CANTOLINO, of Brooklyn, N. Y., B. A. The Johns Hopkins University, 1957; M. A., 1957.

- CHARLES MORELL CARGILLE, of Kearney, N. J., B. A. Bucknell University, 1956.
- DARRYL CARTER, of Baltimore, Md., B. A. The Johns Hopkins University, 1957; M. A., 1957.
- LOUIS ROBERT CONTE, of Jersey City, N. J., B. S. St. Peter's College, 1956.
- ROBERT JOHN CORRY, of Galion, Ohio, A. B. Yale University, 1957.
- KATHRYN ANN WILLINGHAM COZINE, of Coolidge, Ariz., B. S. Alabama Polytechnic Institute, 1957.
- RICHARD ALAN COZINE, of Roselle, Ill., A. B. Monmouth College, 1957.
- MURIEL KAISER DYKE, of Washington, D. C., A. B. Wellesley College, 1957.
- RICHARD ELLIS, of Woodmere, L. I., N. Y., B. A. The Johns Hopkins University, 1957.
- DONALD CARSON FERLIC, of Park Ridge, Ill., B. S. Beloit College, 1957.
- KEITH DAVID GARLID, of Monticello, Minn., B. A. Gustavus Adolphus College, 1956.
- PAUL GEARY, JR., of Plainfield, N. J., A. B. Princeton University, 1957.
- ALBERT HERMAN GELDERMAN, of Tucson, Ariz., A. B. University of Arizona, 1957.
- DAVID LUCAS GLANCY, of Atlanta, Ga., A. B. Emory University, 1955.
- RICHARD GREEN, of Brooklyn, N. Y., A. B., Syracuse University, 1957.
- RICHARD PAUL HANCOCK, of Tucson, Ariz., A. B. University of Arizona, 1957.
- EVANNE LOH HÖHN-ŠARIĆ, of Blacksburg, Va., B. S. Virginia Polytechnic Institute, 1957.
- ROBERT PAUL HUGHES, JR., of Texarkana, Tex., A. B. University of Virginia, 1957.
- JAMES STERLING HUTCHESON, of Roanoke, Va., A. B. University of Virginia, 1957.
- GROVER MACGREGOR HUTCHINS, of Monkton, Md., B. A. The Johns Hopkins University, 1957.
- MICHAEL ELLIS JABALEY, of Copperhill, Tenn., A. B. Vanderbilt University, 1957.
- ROBERT WALLACE JOYCE, JR., of San Francisco, Calif., A. B. University of California (Berkeley), 1956.
- MARTIN KAMP, of Kentfield, Calif., A. B. University of California (Berkeley), 1957.
- CURTIS JOSSELYN KROCK, of Fort Smith, Ark., A. B. Stanford University, 1957.
- GEORGE MARTIN LEIBY, JR., of Arlington, Va., B. S., University of Redlands, 1957.
- SIM CLARK LIDDON, of Yazoo City, Miss., A. B. Vanderbilt University, 1957.
- EVERETT DENNIS LYNE, of Hempstead, N. Y., A. B. Colgate University, 1957.
- JAMES HUTTON MCCUTCHAN, of Salisbury, N. C., A. B. Princeton University, 1957.
- DONALD HARRISON MCKNEW, JR., of Sandy Springs, Md., A. B. Yale University, 1955.
- ROBERT MARTIN MARSHALL, of Belleville, Ill., A. B. Westminster College, 1957.
- FREDERICK KARL MERKEL, of Cincinnati, Ohio, B. S. University of Cincinnati, 1957.
- DAVID PAINTER MOHR, of Baltimore, Md., A. B. Princeton University, 1957.
- JEREMY RICHARD MORTON, of Wayland, Mass., A. B. Princeton University, 1957.
- ALLEN H. NEIMS, of Oak Park, Ill., A. B. University of Chicago, 1957; S. B., 1957.
- CLYDE LEWIS OLSON, of South St. Paul, Minn., A. B. St. Olaf College, 1957.
- JOHN WALTER PAYNE, of Baltimore, Md., B. A. The Johns Hopkins University, 1957.
- NORMAN DOAN PETERSON, of Hallandale, Fla., A. B. Duke University, 1957.
- NEIL CHARLES RAFF, of Forest Hills, N. Y., A. B. Amherst College, 1957.
- SEYMOUR ALVIN RAPAPORT, of Los Angeles, Calif., B. S. California Institute of Technology, 1957.
- CHARLES LUCIUS RENSHAW, of Fort Worth, Tex., A. B. Texas Christian University, 1957.
- DONALD EDWARD RIDENOUR, of Ashland, Ky., A. B. University of Virginia, 1957.
- WALLACE PARKS RITCHIE, JR., of St. Paul, Minn., A. B. Yale University, 1957.
- LEWIS I. SANK, of Long Branch, N. J., B. A. The Johns Hopkins University, 1957.
- RICHARD RANDOLPH SCHULZE, of Wilmington, Del., A. B. Princeton University, 1957.
- WALTER GUSTAV SCHWENK, of Pittsburgh, Pa., A. B. Princeton University, 1957.

- BARRETT SCOVILLE, of West Hartford, Conn., A. B. Yale University, 1957.
- L. THORNTON SHIELDS, of Waltham, Mass., A. B. Harvard College, 1957.
- RICHARD E. SMITH, of Neptune, N. J., B. S. Massachusetts Institute of Technology, 1957.
- JERRY SEABORN SUTTON, of Macon, Ga., A. B. Mercer University, 1957.
- DAVID REYNOLDS SWARNER, of Valparaiso, Ind., A. B. De Pauw University, 1957.
- DANIEL HARRIS SWITKY, of Yonkers, N. Y., B. A. The Johns Hopkins University, 1957.
- HENRY M THOMAS, III, of Baltimore, Md., A. B. Haverford College, 1957.
- JOHN MCDIVIT TORMEY, of Baltimore, Md., B. S. Loyola College, 1956.
- RICHARD THEODORE TSCHETTER, of Huron, S. D., B. S. Huron College, 1957.
- HENRY BROWN TYLER, of Drew, Miss., A. B. Vanderbilt University, 1957.
- H. THOMAS UNGER, of Perth Amboy, N. J., B. S. Haverford College, 1957.
- JOHN AUGUSTINE WASHINGTON, II, of Washington, D. C., A. B. University of Virginia, 1957.
- JEANNINE CLAIRE WILLIAMS, of Dallas, Tex., A. B. Baylor University, 1956.
- HENRY VAN PETERS WILSON, III, of Dover, Del., A. B. University of North Carolina, 1954.
- JAMES BERRY WISE, of Stillwater, Okla., A. B. Oklahoma State University, 1957.

(69)

## MASTERS OF ARTS

### *in The School of Advanced International Studies*

- HUNTER HOLMES ALEXANDER, of Baltimore, Md., A. B. Harvard University, 1957.
- JAMES EDWARD AMMERMAN, of Washington, D. C., B. A. University of Maryland, 1959.
- WILLIAM FRANK BEAZER, of Provo, Utah, B. A. Brigham Young University, 1954.
- LUTHER ATKINSON BOURNE, of Barbados, B. W. I., B. A. University of London, 1959.
- ROBERT JOHN BUWALDA, of Pasadena, Calif., A. B. University of California, 1955.
- ROBERT LEONARD CHAMBERLAIN, of Covington, Va., A. B. Georgetown University, 1959.
- TIMOTHY WINSTON CHILDS, of Norfolk, Conn., A. B. Yale University, 1957.
- DIANA DANE, of Washington, D. C., A. B. Smith College, 1959.
- ARTHUR LOUIS FERN, II, of Bloomfield, Conn., A. B. Washington and Lee University, 1955.
- THOMAS WARFIELD FIROR, of Baltimore, Md., B. A. Oberlin College, 1959.
- THOMAS WILLIAM FLYNN, of Oswego, N. Y., A. B. Hamilton College, 1959.
- JOHN ALBERT FOWLER, of Missoula, Mont., B. A. Montana State University, 1957.
- ALAN FRANKLIN FRESEMAN, of Arlington, Va., B. A. George Washington University, 1959.
- MARIO GUGLIELMOTTI, of Rome, Italy, Laurea in Law University of Rome, 1957.
- TALBOTT WISTAR HUEY, of Baltimore, Md., A. B. Yale University, 1957.
- GEORGE MERWIN HUMPHREY, of State College, Pa., B. A. Antioch College, 1958.
- MYRA BERTHA HYMOVICH, of Stamford, Conn., B. A. Smith College, 1959.
- WILLIAM SHAW JENNETTE, JR., of Elizabeth City, N. C., A. B. Duke University, 1955.
- WILLARD RAYMOND JOHNSON, of Pasadena, Calif., A. B. University of California, 1957.
- THOMAS JOSEPH KANE, JR., of Portland, Me., A. B. Bowdoin College, 1955.
- ROBERT JOHN KARRER, JR., of St. Petersburg, Fla., B. A. The Citadel, 1959.
- LUDMILLA KSENSENKO, of Hartford, Conn., B. A. University of Connecticut, 1959.
- GARY LEE LENT, of New Concord, Ohio, B. A. Muskingum College, 1959.
- WARREN RAMSDELL LEONARD, of New York, N. Y., A. B. Amherst College, 1959.



- MAURY JAY LISANN, of Washington, D. C., B. A. The Johns Hopkins University, 1956.
- CHITHAMBARANATHAN MAHENDRAN, of Colombo, Ceylon, B. A. University of Ceylon, 1955.
- ROBERT GRAYSON MCGUIRE, III, of Washington, D. C., B. A. Dartmouth College, 1958.
- PETER CARY MUNCIE, of Aberdeen, Md., A. B. Kenyon College, 1959.
- JOHN DAVID NAGY, of Buffalo, N. Y., B. A. Hamilton College, 1959.
- DAVID RALSTON, of Wilmington, Del., B. A. Trinity College, 1958.
- DAVID ARTHUR ROBB, JR., of Alexandria, Va., B. S. Hampden-Sydney College, 1959.
- BEVERLEY ROBINSON, of Fort Washington, Pa., B. A. Columbia University, 1957.
- LAWRENCE ARTHUR RUBINO, of Newburyport, Mass., B. A. Providence College, 1959.
- WILLIAM ARTHUR RUGH, of New York, N. Y., B. A. Oberlin College, 1958.
- THOMAS ALLEN SCHLENKER, of North Sacramento, Calif., A. B. Saint Mary's College, 1959.
- MARIO SICA, of Florence, Italy, Laurea in Political Science University of Florence, 1959.
- FRANCO SOGLIAN, of Bergamo, Italy, Doctor in Political Science University of Pavia, 1957.
- JOAN LOUISE STEVES, of Bethany, Ohio, A. B. Duke University, 1957.
- CAROL MONROE THOMAS, of Washington, D. C., A. B. Yale University, 1953.
- RICHARD HENRY THOMPSON, III, of Deerfield, Ill., A. B. Yale University, 1959.
- KARL ROBERTSON VAN HORN, of Pittsburgh, Pa., B. S. Yale University, 1957; Honours Degree in Economics St. John's College, Cambridge University, 1959.
- BARCLAY WARD, of Storrs, Conn., A. B. Hamilton College, 1959.
- ROBERT ALBERT WILSON, of Jamestown, N. Y., A. B. Colgate University, 1959.
- SUWARDI WIRIAATMADJA, of Bandung, Indonesia, Drs. Degree Gadjah Mada University, 1959.
- WILBUR IRA WRIGHT, of Detroit, Mich., A. B. University of Michigan, 1955.
- BARBARA ZEITLIN, of New York, N. Y., B. A. City College New York, 1959.

(46)

## DOCTORS OF PHILOSOPHY

*in the School of Advanced International Studies  
with titles of dissertations*

- OLIVER EDMUND CLUBB, of St. Paul, Minn., A. B. University of Minnesota, 1951; M. A. School of Advanced International Studies, The Johns Hopkins University, 1956.  
The Dynamics of the Burmese Independence Movement.
- ROBERT ESSEX DEVEREUX, of Washington, D. C., A. B. Indiana University, 1944; M. A. The George Washington University, 1956.  
The First Ottoman Constitutional Period: A Study of the Midhat Constitution and Parliament.
- ROBERT WALRATH TUFTS, of Oberlin, Ohio, A. B. Fletcher School of Law and Diplomacy, Tufts University, 1940; M. A. 1941.  
The Origin and Development of the National Security Council.

(3)

## *MASTERS OF ARTS IN TEACHING*

- BARBARA ALLAN, of Richmond, Va., A. B. Mary Baldwin College, 1958.
- THEODORE ROGERS BAUMGARDNER, of Cincinnati, Ohio, B. A. Williams College, 1957.
- BARBARA EDGELEY SAMPSON BORSCH, of Hinsdale, Ill., A. B. Sweet Briar College, 1959.
- CHARI COUCH HERENDEN BRIGGS, of Camp Hill, Pa., B. A. William Smith College, 1960.
- MARIAN BRISCHLE, of Spokane, Wash., B. A. Mills College, 1960.
- KAREN ELIZABETH CARLSON, of Cincinnati, Ohio, B. A. Bryn Mawr College, 1960.
- ELLIN KRAUSS DEESE, of Baltimore, Md., A. B. The George Washington University, 1949.
- GERTRUDE JEANNETTE DEKRAKER, of Williamson, N. Y., A. B. University of Rochester, 1960.
- LEWIS HARRISON DREW, of Richmond, Va., B. A. Hampden-Sydney College, 1960.
- DON GOULD ELLICOTT, of Baltimore, Md., B. A. Williams College, 1955.
- JANE WENBAN HASTINGS, of Minneapolis, Minn., A. B. Smith College, 1960.
- ROSEMARY VERONICA HERMAN, of Dearborn, Mich., A. B. Trinity College, Washington, D. C., 1960.
- SALLIE TURNER HIGHTOWER, of Charleston, West Va., B. A. Harding College, 1959.
- ALICIA ANN HINES, of Yakima, Wash., B. A. San Francisco College for Women, 1960.
- GRACE BETTY HOROWITZ, of Mt. Vernon, N. Y., A. B. Barnard College, 1960.
- FREDERICK HENRY JUERGENS, JR., of Mariemont, Ohio, B. A. DePauw University, 1960.
- JEAN BRALEY KATZ, of Baltimore, Md., B. A. Carleton College, 1960.
- JUDITH PEERY KLINK, of Baltimore, Md., A. B. University of Michigan, 1959.
- URSULA FOARD KOVACS, of Baltimore, Md., B. A. University of Toronto, 1959.
- STEWART LITTLETON LECATO, of Linthicum Heights, Md., B. A. New York University, 1959.
- RICHARD ALLEN LITTLE, of Tuscarawas, Ohio, B. S. Wittenberg College, 1960.
- JOHN LAWRENCE MAGNUS, JR., of Baltimore, Md., B. A. Oberlin College, 1957.
- FRANK BRUSH MURRAY, of Baltimore, Md., B. A. St. John's College, Annapolis, Md., 1960.
- ROBERT BROWNING NICODEMUS, of Silver Spring, Md., A. B. The George Washington University, 1956.
- NANCY ODINOV, of Brooklyn, N. Y., A. B. Barnard College, 1960.
- JOHN TERENCE OGDEN, of Pittsburgh, Pa., A. B. Princeton University, 1960.
- CHARLES MARTIN OSBORN, of Merced, Calif., A. B. Stanford University, 1960.
- FRANCES ELAINE PRICE, of Wallingford, Conn., B. A. Drew University, 1960.
- DOROTHY LUFT REESE, of Baltimore, Md., B. A. Pennsylvania State College, 1951.
- MARGARET ANN SAUNDERS, of Cleveland, Ohio, A. B. Trinity College, Washington, D. C., 1959.
- STUART ALAN SELIGSON, of Baltimore, Md., B. A. The Johns Hopkins University, 1957.
- LOIS ZELDA SETTLER, of Baltimore, Md., A. B. Goucher College, 1960.
- ELIZABETH LAMB SNODGRASS, of Philadelphia, Pa., B. A. Wellesley College, 1960.
- HORACE DONALDSON STEPHENS, of Ogunquit, Me., A. B. Princeton University, 1959.
- SALLY JOANNE STILLINGER, of Shaker Heights, Ohio, A. B. Mount Holyoke College, 1960.
- CYNTHIA ANNE STOKES, of Madisonville, Ky., A. B. Duke University, 1960.
- DENISE MARIE WALL, of Jermyn, Pa., A. B. St. Mary's College, Notre Dame, Ind., 1960.
- HOLLY ANN WILLARD, of Verona, N. J., A. B. Mount Holyoke College, 1960.
- DOLORES KAY WINANDY, of Baltimore, Md., B. A. Denison University, 1958.

(39)

# MASTERS OF ARTS

with titles of essays

- WILBUR THEODORE ALBRECHT, II, of Ellicott City, Md., B. A. Brown University, 1960. English.
- MARIAN CHOW ALTSCHUL, of Baltimore, Md., A. B. Cornell University, 1958. History.  
The Shakhty Affair (1928) and Russo-German Relations.
- DAVID JEFFREY BAKER, of Baltimore, Md., B. A. The Johns Hopkins University, 1960. Romance Languages.
- MARK AARON BERKLEY, of Baltimore, Md., B. S. Trinity College, Hartford, Conn., 1958. Psychology.  
Drive Level as a Cue for the Conditioning of Anxiety.
- RICHARD CLARK BROOKE, of Lumberport, W. Va., B. S. West Virginia Wesleyan College, 1959. Chemistry.
- MECHTHILD IRMINGARD BUCH-BIRZNIEKS, of Baltimore, Md., B. A. Barty College, 1959. German.
- SAMUEL BURWELL BARNETT CARLETON, of New Orleans, La., B. A. The University of the South, 1959. Classics.
- ELIZABETH IRVING ARNOLD CHOULES, of Oak Ridge, Tenn., B. A. University of Rochester, 1958. Biology.
- EDMUND BENEDICT COLEMAN, JR., of Baltimore, Md., B. S. The University of South Carolina, 1958. Psychology.  
Improving Comprehensibility by Shortening Sentences.
- ROBERT GEIGER COOK, of Bethlehem, Pa., A. B. Princeton University, 1954. English.
- ALAN CHARLES DESSEN, of Baltimore, Md., A. B. Harvard College, 1957. English.
- ELIZABETH DOROTHEA DIPPLE, of Mitchell, Ontario, Canada, B. A. The University of Western Ontario, 1959. English.
- VIRGINIA FRANCIS DORSEY, of Baltimore, Md., B. S. The State Teachers College, Towson, Md., 1943; B. A. Santa Barbara College, 1949. History.  
Pro-Slavery Thought in the Fiction of the 1850's.
- MARTIN BERNARD DREIER, of New York, N. Y., B. S. Queens College, Flushing, N. Y., 1959. Chemistry.
- ARTURO JOSÉ ECHAVARRÍA-FERRARI, of Aquadilla, Puerto Rico, B. A. The Johns Hopkins University, 1960. Writing Seminars.  
*An Act of Charity* and Other Stories.
- JOHN SMITH FARLOW, III, of Baltimore, Md., A. B. Harvard College, 1957. Oceanography.  
Physical Oceanography of the Alaskan Basin of the Arctic Sea.
- THOMAS PATRICK FEHLNER, of Baltimore, Md., B. S. St. Bernardine of Siena College, 1959. Chemistry.
- ELAINE GINI FLEMING, of Baltimore, Md., A. B. Oberlin College, 1958. Chemistry.
- DIANE ELVERA DETURO FORTUNA, of Lodi, N. J., A. B. New York University, 1958. English.
- JOHN BLOCK FRIEDMAN, of Hollywood, Calif., B. A. Reed College, 1960. English.
- ERIC LAWRENCE GANS, of New York, N. Y., A. B. Columbia University, 1960. Romance Languages.
- LEONARD BRAGDON GILLEY, of Southwest Harbor, Me., A. B. Bowdoin College, 1951. Writing Seminars.  
*A Band of Winter Light*. A Portion of a Novel and Fifteen Poems.
- RIMANTAS GLEMZA, of Baltimore, Md., A. B. Rutgers University, 1957. Chemistry.
- JOHN BOYDEN GOODELL, of Baltimore, Md., B. A. The Johns Hopkins University, 1956. Physics.
- JOHN ANDREW GORMAN, of New York, N. Y., B. A. Manhattan College, 1960. German.
- LOWELL HEADLEY HALL, II, of Baltimore, Md., B. S. Eastern Nazarene College, 1959. Chemistry.
- EARL NORMAN HARBERT, of Cincinnati, Ohio, A. B. Hamilton College, 1956. English.
- SHERRY OSMOND HESSLER, of Cincinnati, Ohio, B. A. Swarthmore College, 1957. Geography.  
Patterns of Transport and Urban Growth in the Miami Valley, Ohio, 1820-1880.
- JOE WALTER HIGHTOWER, of Baltimore, Md., B. S. Harding College, 1959. Chemistry.
- PETER HOVINGH, JR., of Grand Rapids, Mich., B. S. Michigan State University, 1958. Biology.
- RICHARD BROWN HUGHES, of Winsted, Conn., B. A. The University of the South, 1957. Writing Seminars.  
*Sunlight and Shadow*. A Collection of Stories.
- PETER KEIM IBER, of Baltimore, Md., B. A. The Johns Hopkins University, 1959. Chemistry.
- NICOLAO JANNUZZI, of Sao Paulo, Brazil, University of Sao Paulo. Physics.  
Calculations of the Frequencies of Vibration of  $\text{NH}_2\text{D}$  and  $\text{NHD}_2$  and Analysis of Part of an Absorption Band of  $\text{NH}_2\text{D}$ .
- THELMA DORIS JOHNSON, of St. Clair Shores, Mich., B. A. Wayne State University, 1959. English.



- CHRISTOPHER CURTISS JONES, of Geneva, N. Y., B. S. Hobart College, 1957. Physics.  
A Mossbauer Experiment Suitable for Advanced Undergraduate Laboratories.
- DONALD LAWRENCE JONES, of Loveland, Colo., A. B. Colorado State College, 1960. English.
- INSUP KIM, of Seoul, Korea, B. A. Seoul National University, 1956. Psychology.  
Comparison of Four Styles of Typography in English.
- JAMES LEBEAU LAMBERT, of Baltimore, Md., B. S. Spring Hill College, 1959. Chemistry.
- STANLEY ERNEST LOEB, of Philadelphia, Pa., B. A. Brown University, 1960. English.
- ADOLFO PORCAR MACCRAGH, of Caracas, Venezuela, B. S. Stanford University, 1959. Chemistry.
- THOMAS EDWARD MARESCA, of Jersey City, N. J., A. B. St. Peter's College, 1959. English.
- BARBARA JEAN MCCAMUS, of Willmer, Minn., B. A. University of Minnesota, 1960. English.
- GAVAN JOHN McDONELL, of London, England, B. E. The University of Queensland, 1955. International Studies.  
Transport and Industrial Location in China (1949-1959).
- DONALD ALLAN MCQUARRIE, of Baltimore, Md., B. S. Lowell Technological Institute, 1958. Chemistry.
- DONALD LAURENCE MCQUILLAN, of Dundalk, Ireland, B. Sc. University College, Galway, Ireland, 1954; M. Sc. 1955. Mathematics.
- WILFORD LEE MENDELSON, of Baltimore, Md., B. A. The Johns Hopkins University, 1958. Chemistry.
- PRITAM TARACHAND MERANI, of Bombay, India, B. A. The Johns Hopkins University, 1958. International Studies.  
The Kashmir Crisis.
- EDWARD ISAAC MEYERS, of Baltimore, Md., B. A. The Johns Hopkins University, 1960. English.
- ROBERT ARNOLD MIZE, of Baltimore, Md., B. A. St. Paul's College, Washington, D. C., 1956. Classics.
- PAUL RAIMOND MUCENIEKS, of Baltimore, Md., Chemistry.
- HAROLD NADEL, of Bayonne, N. J., B. A. Rutgers University, 1960. English.
- HENRY DAVIS NADIG, JR., of Norwalk, Conn., B. A. Hamilton College, 1957. English.
- WILLIAM WATSON NICHOLS, of Milwaukie, Ore., A. B. Park College, 1960. English.
- ARTHUR SAUL PFEFFER, of Baltimore, Md., A. B. Cornell University, 1958. English.
- PASQUALE LOUIS POLILLO, of Baltimore, Md., B. A. St. John's College, Annapolis, Md., 1956. German.
- MELVIN BERTRAND RINGEL, of Brooklyn, N. Y., B. S. in Math. Massachusetts Institute of Technology, 1958. Mathematics.
- MARJORIE ALICE RISSE, of Stewartville, Minn., B. A. Oberlin College, 1960. German.
- EDWARD JOSEPH ROSS, II, of Baltimore, Md., B. A. The Johns Hopkins University, 1960. Writing Seminars.  
*Lazarus. A Scenario with an Introduction.*
- SUZANNE RUNYAN, of New York, N. Y., B. A. Southwestern University, 1959. Art as Applied to Medicine.  
Early Development of the Clingfish, *Gobiesox strumosus* Cope.
- ELEANOR ARMSTRONG SAMWORTH, of Baltimore, Md., A. B. Wilson College, 1958. Chemistry.
- HENRY ALLEN SCHWARTZ, of Towson, Md., B. S. The College of William and Mary, 1959. Psychology.  
Frequency of Usage and Association Strength in the Learning of a Verbal Maze.
- NATALIE WATKINS SCULL, of Baltimore, Md., B. A. Oberlin College, 1960. German.
- EDNA L. SELAN, of Bronx, N. Y., A. B. Barnard College, 1960. Romance Languages.
- MARC BRUCE SIMON, of Philadelphia, Pa., B. S. in Ed. Temple University, 1960. Writing Seminars.  
*American Holiday* and Other Poems.
- MARY ELLEN SHARPLESS SIMON, of Monkton, Md., B. S. Cornell University, 1956. Geology.
- HERBERT RAY SMITH, of Detroit, Mich., A. B. Albion College, 1958. Art as Applied to Medicine.  
Description and Illustration of the Compartmentation of the Larynx by Elastic Tissue.
- HARRY LEROY SNYDER, of Wayne, N. J., A. B. Brown University, 1958. Psychology.  
Effect of Volume of Reinforcement and Number of Consummatory Responses on Licking and Running Behavior.
- SALVATORE ANTHONY SPAGNOLO, of Brooklyn, N. Y., B. A. Manhattan College, 1960. Writing Seminars.  
*Nyctalopia* and Other Poems.

- DONALD RANDALL SPALDING, of Whitefield, N. H., B. A. Dartmouth College, 1957. Geology.
- DAVID ARNOLD ALBERT STAGER, of Oxford, England, B. S. A. Ontario Agricultural College, 1959. Political Economy. Technological Change and Related Terms and Concepts in Social Science Literature.
- ALFRED CRAMER STROHLEIN, of Baltimore, Md., B. A. LaSalle College, 1956. Art as Applied to Medicine.  
A Morphological Study of the Periosteal Vasculature; with a Consideration of Technical Procedures Utilized in Visualization of Blood Vessels.
- NIELS FRANCIS SUNDERMEYER, of Gettysburg, Pa., B. A. The Johns Hopkins University, 1960. Writing Seminars.  
*The Moth and the Star*. A Collection of Stories and Poems.
- MARCIA LORRAINE SUTHON, of Baltimore, Md., B. A. Newcomb College, 1958. Chemistry.
- DONALD JOSIAH PALMER SWIFT, of Alexandria, Va., A. B. Dartmouth College, 1957. Geology.
- ROBERT TER HORST, of Pikesville, Md., A. B. Princeton University, 1952. Romance Languages.
- IRENA MARIA TRASKA, of Baltimore, Md., B. A. Mount Saint Agnes College, 1960. German.
- STEPHEN ARNOLD WEINSTEIN, of Baltimore, Md. Psychology. Multiple Application of Schemas in the Perception of Visual Structures.
- JEROME COVELL WELLS, of Detroit, Mich., A. B. in Economics University of Michigan, 1958. Political Economy.  
The Structure of a Local Medical Goods Market: A Study of the Metropolitan Detroit Market for Eyeglasses.
- DAVID GEORGE WHITTEN, of Baltimore, Md., B. A. The Johns Hopkins University, 1959. Chemistry.
- ROBERT ALJIAN WINTER, of Freeport, N. Y., B. A. Trinity College, Hartford, Conn., 1960. Writing Seminars.  
*The Estranged*. A Portion of a Novel.
- THOMAS LEE WOLF, of Baltimore, Md., B. A. Western Maryland College, 1957. Education.  
The Teacher in the Contemporary American Novel.
- SIEGFRIED WOLFF, of Baltimore, Md. German.
- HOWARD BENNETT WOLMAN, of Baltimore, Md., B. A. Amherst College, 1958. Classics.

(83)

## DOCTORS OF PHILOSOPHY

*with titles of dissertations*

- FRANK McADAMS ALBRECHT, JR., of Baltimore, Md., B. A. The Johns Hopkins University, 1957. History.  
The New Psychology in America: 1880-1895.
- ROBERT BURKE BARRETT, JR., of Urbana, Ill., A. B. Colgate University, 1951. Philosophy.  
C. I. Lewis's Analytic Method.
- BERNARD HERBERT BAUMRIN, of New York, N. Y., B. A. The Ohio State University, 1956. Philosophy.  
The Ethics of Sir David Ross and The Epistemological Foundations of Ethical Intuitionism.
- RAYMOND JULES BRETON, of Montreal, Canada, B. A. The University of Manitoba, 1952; A. M. The University of Chicago, 1958. Social Relations.  
Ethnic Communities and the Personal Relations of Immigrants.
- FLOYD JOHN BRINLEY, JR., of Baltimore, Md., A. B. Oberlin College, 1951; M. D. University of Michigan, 1955. Biophysics.  
Potassium Accumulation and Transport in the Rat Sympathetic Ganglion.
- DANIEL HARRIS CARSON, of Santa Barbara, Calif., B. A. (Psych.) University of California, 1953; B. A. (Arch.) 1954; M. A. The Johns Hopkins University, 1958. Psychology.  
Letter Constraints within Words in Printed English.
- ELLIOT MYRON CRAMER, of Bethesda, Md., B. S. in Mathematics Massachusetts Institute of Technology, 1955; M. A. The Johns Hopkins University, 1957. Psychology.  
The Long-Term Effects of Experience on Judgments of Loudness and a Comparison of Three Methods of Fitting the Normal Ogive.
- JOHN GAYLORD CUMMINS, of Baltimore, Md., B. A. The Johns Hopkins University, 1957. Political Economy.  
Concentration and Mergers in the Pulp and Paper Industries of the United States and Canada, 1895-1955.
- FRANCIS PETER DELGRECO, of Stoneham, Mass., A. B. Boston University, 1952; M. S. Tufts College, 1954. Chemistry.  
Infrared and Raman Spectral Study of Nitrate Solutions in Liquid Hydrogen Fluoride.

- JACOB JOHN ENZ, of Elkhart, Ind., A. B. Bethel College, 1941; S. T. B. Biblical Seminary in New York, 1944. Oriental Seminary.  
 "Light" and "Darkness" in the Qumran Literature and the Gospel and Epistles of John Examined Against the Background of Their Old Testament and Intertestamental Use.
- LEONARD SCHUYLER FONAROFF, of Baltimore, Md., B. A. University of Arizona, 1955. Geography.  
 The Navajo Sheep Industry: A Study in Cross Cultural Administration.
- JONATHAN ABRAHAM GALLANT, of Mt. Vernon, N. Y., B. S. Haverford College, 1957. Biology.  
 Studies on Thymineless Death in *Escherichia coli*.
- THEODORE PHILIP GOLDSTEIN, of Baltimore, Md., B. A. The Johns Hopkins University, 1951; M. A. 1959. Chemistry.  
 I. The Stereochemistry of Crystal Violet.  
 II. The Rate of Diazonium Coupling as Applied to Histochemistry.
- GEORGE LOUIS HAND, of Summit, N. J., B. S. Rutgers University, 1956; M. S. E. The Johns Hopkins University, 1959. Mechanics.  
 A Theory of Anisotropic Fluids.
- ADA SINZ HILL, of Kingston, Ontario, Canada, A. B. Middlebury College, 1955; M. A. The Johns Hopkins University, 1957. Chemistry.  
 Reductive Deamination of Aliphatic Amines.
- WARREN ALLEN HOVIS, JR., of Baltimore, Md., B. A. The Johns Hopkins University, 1953. Physics.  
 Time Resolved Studies in the Spectra of Rare Earth Ions.
- RALPH EUGENE HUNTER, of Evansville, Ind., A. B. Indiana University, 1957. Geology.  
 Iron Sedimentation in the Clinton Group of the Central Appalachian Basin.
- JERALD RAY IZATT, of Baltimore, Md., B. S. in Physics University of Utah, 1952. Physics.  
 Self and Foreign Gas Broadening in the Pure Rotation Spectrum of Water Vapor between 475 and 690 Wave Numbers.
- ITSUO KAWAMURA, of Gifu-ken, Japan, M. A. in Econ. Nagoya University, 1955. Political Economy.  
 Foreign Trade and Economic Development of Japan.
- ALVIN RICHARD KNUDSON, of Springfield, Va., A. B. Catholic University of America, 1954. Physics.  
 Studies of the  $N^{15}(d,n)O^{16}$  Reaction.
- JAMES MORRISON LAMBERT, of Baltimore, Md., B. A. The Johns Hopkins University, 1955. Physics.  
 Deuteron Polarization in the  $Be^0(p,d)Be^0$  Reaction.
- ROBERT LEHRER, of Tonawanda, N. Y., B. S. Union College, Schenectady, N. Y., 1956; M. A. The Johns Hopkins University, 1959. Chemistry.  
 The Reaction of Accelerated Positive Bromine Ions with Organic Materials.
- JAY ARNOLD LEVINE, of Baltimore, Md., A. B. Columbia University, 1953; A. M. 1954. English.  
 Studies in the Neo-Classical Verse Epistle.
- DONALD HALE LINDSLEY, of Washington, D. C., A. B. Princeton University, 1956. Geology.  
 Geology of the Spray Quadrangle, Oregon, with Special Emphasis on the Petrography and Magnetic Properties of the Picture Gorge Basalt.
- RONALD WARREN LINKER, of New York, N. Y., A. B. Columbia University, 1953; M. A. 1954. History.  
 Philip Pusey, Esquire: Country Gentleman 1799-1855.
- JOHN CAREY LOPER, of Sykesville, Md., A. B. Western Maryland College, 1952; M. S. Emory University, 1953. Biology.  
 Gene-Enzyme Relationships in Histidine Biosynthesis in *Salmonella*.
- MARGOT ELEANOR LOURIA, of Washington, D. C., A. B. Barnard College, 1950; M. A. Boston University, 1955. International Studies.  
 British Attitudes towards the Empire on the Question of Separation, 1830-1870.
- HIRSCH ISRAEL MANDELBERG, of Baltimore, Md., B. E. The Johns Hopkins University, 1954. Physics.  
 An Experimental Measurement of Relativistic Time Dilation.
- SISTER MARY FRANCES MCCARTHY, of Washington, D. C., A. B. Trinity College, Washington, D. C., 1937; M. A. The Catholic University of America, 1938. German.  
 Unity in the *Nibelungenlied*.
- MACLYN MCCARTY, JR., of Baltimore, Md., B. A. The Johns Hopkins University, 1957; M. A. 1959. Chemistry.  
 Electronic Spectra of Diatomic and Triatomic Molecular Fragments Trapped in Inert Solids at 4.2°K.
- FRANCIS JOSEPH MCGUIRE, of Pasadena, Md., B. S. Loyola College, 1954; M. A. The Johns Hopkins University, 1956. Chemistry.  
 Preliminary Studies on the Structure of " $\alpha$ "-Caryophyllene Alcohol.
- NORMAN LEWIS MCIVER, of Houston, Tex., B. A. University of Saskatchewan, 1956. Geology.  
 Upper Devonian Marine Sedimentation in the Central Appalachians.
- DONALD LAURENCE MCQUILLAN, of Dundalk, Ireland, B. Sc. University College, Galway, Ireland, 1954; M. Sc. 1955; M. A. The Johns Hopkins University, 1961. Mathematics.  
 A Generalization of a Theorem of Hecke.



- CHARLES EDWARD MIZE, of Smithville, Tex., B. A. Rice Institute, 1955. Physiological Chemistry.  
A Study in Characterization and Mechanism of Action of Hepatic Glutathione Reductase.
- FRANK HENRY MOYER, JR., of Evanston, Ill., B. S. University of Maryland, 1956. Biology.  
The Developmental Genetics of Melanocyte Differentiation Analyzed with the Electron Microscope.
- MARK MUSA, of Palisade, N. J., B. A. Rutgers University, 1956; M. A. The Johns Hopkins University, 1959. Romance Languages.  
The Poetry of Panuccio del Bagno.
- VIVIAN O'BRIEN, of Baltimore, Md., A. B. Goucher College, 1945; M. A. The Johns Hopkins University, 1950; M. S. E. 1954. Aeronautics.  
An Investigation of Viscous Vortex Motion: The Vortex-ring Cascade.
- WILLIAM CLOPTON PERKINS, of Lynchburg, Va., B. S. Duke University, 1955; M. A. The Johns Hopkins University, 1957. Chemistry.  
Behavior of  $N^{13}$  in Alcohol Systems.
- CHARLES EDWIN PETERSON, JR., of Jersey Shore, Pa., A. B. Lycoming College, 1950; M. A. Bucknell University, 1951. Education.  
Theron Baldwin and Higher Education in the Old Northwest.
- MARY JANE PHILLIPS, of Toronto, Ontario, Canada, B. A. Sc. University of Toronto, 1953; M. A. Bryn Mawr College, 1954. Chemistry.  
The Use of Iron as a Catalyst for the Hydrogenation of Benzene and of Olefins.
- PAUL FREDERICK PHIPPS, of Valparaiso, Ind., A. B. Valparaiso University, 1949; M. A. The University of North Carolina, 1950. English.  
The Concept of the Greek and Latin Classics in South Carolina, 1828-1860.
- EVA REINITZ, of Arlington, Va., B. A. The George Washington University, 1956. Philosophy.  
Kant and the Beginnings of German Existentialism: A Study in the Early Philosophy of Karl Jaspers.
- NATHAN RUSSELL ROBERSON, JR., of Robersonville, N. C., B. S. in Physics University of North Carolina; 1954; M. S. 1955. Physics.  
A Measurement of the Residual Nuclear Polarization Produced in the  $B^{11}(d,p)B^{12}$  Reaction.
- ALAN HENRY ROPER, of Baltimore, Md., B. A. Jesus College, Cambridge University, 1957; M. A. Dalhousie University, 1959. English.  
Dryden and the Stuart Succession.
- RAYMOND ALFRED ROUSSEAU, of Lewiston, Me., B. S. College of the Holy Cross, 1956; M. S. 1957. Chemistry.  
Thermodynamics of Liquids.
- MIRIAM ARONSTEIN SAFREN, of Philadelphia, Pa., A. B. Temple University, 1957. Psychology.  
Associations, Sets, and the Solution of Word Problems.
- EDITH LOUISE WEAVER SCHELL, of Baltimore, Md., B. S. State Teachers College, Towson, Md., 1944; M. A. Loyola College, 1959. Education.  
The Educational Philosophy of Bernard Bosanquet.
- EUGENE A. SEKULOW, of Baltimore, Md., M. A. The Johns Hopkins University, 1954. Political Science.  
The Congressmen Ask the People: A Study of Congressionally Conducted Public Opinion Polls.
- CLARA KWEIFONG SHUN, of Honolulu, Hawaii, B. A. University of Hawaii, 1954; M. A. The Johns Hopkins University, 1957. Chemistry.  
A Quantitative Study of the Mode of Linkage between Heme and Globin in Human Hemoglobin and Carbonmonoxyhemoglobin.
- HARRY LEROY SNYDER, of Baltimore, Md., A. B. Brown University, 1958; M. A. The Johns Hopkins University, 1960. Psychology.  
Saccharine Concentration and Deprivation as Determinants of Instrumental and Consummatory Response Strengths.
- DENNIS KEITH STANLEY, JR., of Gainesville, Fla., B. A. University of Florida, 1957. Classics.  
Cosmos and Demiurge in Roman Poetic Tradition.
- CRAIG ANTHONY STAUDENBAUR, of Portland, Ore., A. B. University of South Dakota, 1954; M. A. in History Brandeis University, 1956. Philosophy.  
The Metaphysical Thought of Henry More: Its Sources and Development.
- VLADIMIR LIUBENOV STOIKOV, of Baltimore, Md., B. S. University of Illinois, 1953; M. S. The University of Wisconsin, 1956. Political Economy.  
The Allocation of Scientists and Engineers.
- RICHARD CARL STRAND, of Osnabrock, N. D., B. S. North Dakota Agricultural College, 1955. Physics.  
Systematics of  $K^-$  Interactions at Rest in Helium.
- MAURICE MARTIN TAYLOR, of Toronto, Canada, B. A. Sc. University of Toronto, 1956; M. S. E. The Johns Hopkins University, 1959. Psychology.  
The Effect of Anchoring and Distance Perception on the Reproduction of Forms.

ALLAN CHARLES TURNOCK, of Winnipeg, Canada, B. Sc. University of Manitoba, 1953; M. Sc. 1956. Geology.

The Stability and Phase Relationship of Fe-Al Spinel and Iron Chlorites.

WILLIAM ALEXANDER VAN HOOK, of Leicester, Mass., B. S. College of the Holy Cross, 1957; M. A. The John Hopkins University, 1959. Chemistry.

An Investigation, Using Carbon 14 Tracers, of Some Parts of the Catalytic Cracking Reaction of n-Hexadecane over an Acidic Aluminosilicate Catalyst.

EDWARD WILLARD WARREN, of Syracuse, N. Y., A. B. Stanford University, 1950. Philosophy.

The Concept of Consciousness in the Philosophy of Plotinus.

CHEN-PING YANG, of Princeton, N. J., Sc. B. Brown University, 1952; S. M. Harvard University, 1953. Physics.

An Approach to the Three-Dimensional Ising Problem Using a Large Scale Fast Digital Computer.

YASUKICHI YASUBA, of Tokyo, Japan, B. A. University of Tokyo, 1953; M. of Economics, 1956. Political Economy.

Economics of the Birth-Rates of the White Population: United States, 1800-1860.

RICHARD ALBERT ZDANIS, of Baltimore, Md., B. A. The Johns Hopkins University, 1957. Physics.

Studies of the  $C^{13}$  (d,n)  $N^{14}$  Reaction.

EDWARD CHARLES ZIPF, JR., of Baltimore, Md., B. S. Fordham University, 1957. Physics.

Transient Studies of De-Ionization Processes in the Nitrogen Afterglow.

(62)



